# HITACHI
# SERVICE MANUAL

NTSC

AP23 Chassis

YK

No. 0431E

## 50UX10B
## 50UX11K

**R/C: CLU-950GR2**
**CLU-609**

### CONTENTS

SAFETY PRECAUTIONS ........ 2
SERVICING PRECAUTIONS ........ 5
TECHNICAL CAUTIONS ........ 8
SPECIFICATIONS ........ 9
CIRCUIT PROTECTION ........ 9
GENERAL INFORMATION ........ 10
ADJUSTING FOR PICTURE AND SOUND FUNCTIONS ........ 11
CONVERGENCE ADJUSTMENT ........ 13
CAUTIONS WHEN CONNECTING/DISCONNECTING THE HV CONNECTOR ........ 15
PROTECT CIRCUIT BLOCK DIAGRAM ........ 16
BLOCK DIAGRAM ........ 17
BASIC CIRCUIT DIAGRAM ........ 19
WAVEFORMS AT EACH SECTION ........ 46
WIRING DIAGRAM ........ 51
EXPLODED VIEW ........ 56
REPLACEMENT PARTS LIST ........ 59

Refer to the 50UX7B/K/W service manual (YK No. 0403E) for the printed wiring board.

**CAUTION:** Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

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### SAFETY NOTICE
### USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by ⚠ on schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing this chassis, it is important that the service technician read and follow the "Safety Precautions" and "Product Safety Notices" in this Service Manual.

* For continued x-radiation protection, replace picture tube with original type or Hitachi approved equivalent tipe.

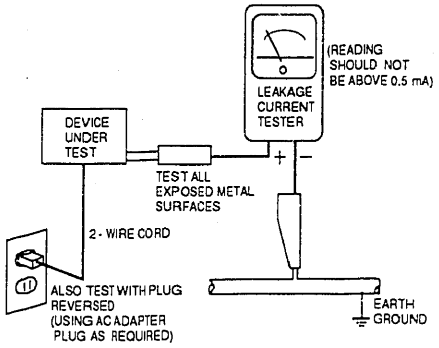
**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.**

## PROJECTION COLOR TELEVISION

**April 1992** **CONSUMER ELECTRONICS DIVISION**

## SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to the following items:
   a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   c. **Antenna Cold Check** — With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   d. **Leakage Current Hot Check** — With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.

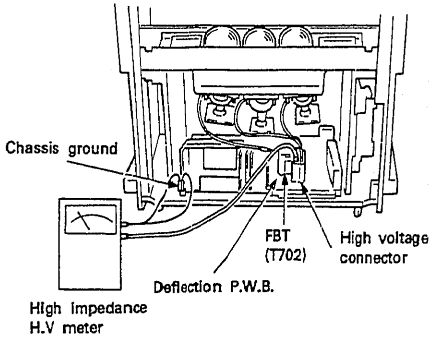

(READING
SHOULD NOT
BE ABOVE 0.5 mA)
LEAKAGE
CURRENT
TESTER
DEVICE
UNDER
TEST
+
−
TEST ALL
EXPOSED METAL
SURFACES
2 - WIRE CORD
ALSO TEST WITH PLUG
REVERSED
(USING AC ADAPTER
PLUG AS REQUIRED)
EARTH
GROUND

AC Leakage Test

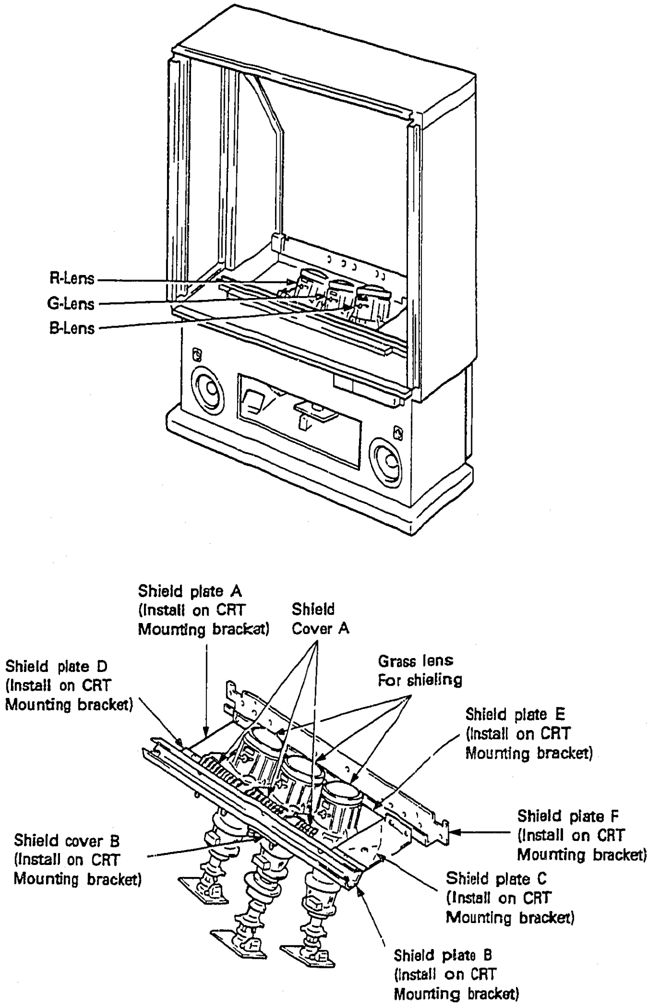
**ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.**

   e. **High Voltage** — This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.
   f. **Serviceman warning** — With minimum Black Level and Picture, operating high voltage in this receiver is lower than **31.6kV**. In case any component having influenced on high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than **31.6kV.**
   To measure H.V. use a high impedance H.V. meter. Connect (–) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

**Note:** Turn power switch off without fail before the connection with Anode button is made.


Chassis ground
FBT
(T702)
High voltage
connector
Deflection P.W.B.
High Impedance
H.V meter

   g. **X-radiation — TUBE:** The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation emissions.
   For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.
   When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
   Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.
   h. **X-radiation Shield —**
      1) This receiver is provided X-ray shield plates for the protection of X-radiation. Do not remove X-ray shield **plates A, B, C, D, E, F and shield covers A, B shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.**
      2) To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.


R-Lens
G-Lens
B-Lens
Shield plate A
(Install on CRT
Mounting brackat)
Shield
Cover A
Grass lens
For shieling
Shield plate D
(Install on CRT
Mounting bracket)
Shield plate E
(Install on CRT
Mounting bracket)
Shield plate F
(Install on CRT
Mounting bracket)
Shield cover B
(Install on CRT
Mounting bracket)
Shield plate C
(Install on CRT
Mounting bracket)
Shield plate B
(Install on CRT
Mounting bracket)

Detailling X-radiation shields

**Fig. 1**

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** — Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to, circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** — The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning — a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b.** Some TV receiver chassis normally have 85 V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. **c.** Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts — be sure that leads and components do not touch thermally hot parts, **c.** the AC supply, **d.** high voltage, and **e.** antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components, and between components and the printed-circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** — Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified Hitachi service data by shading on schematics and by a ( ⚠ ) in the parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of Service literature may be obtained at a normal charge from Hitachi.

## SERVICING PRECAUTIONS

**CAUTION:** Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 2 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 2 of this publication, always follow the safety precautions. Remember: Safety First.

### General Servicing Precautions

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
   **Caution:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
   The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed then the bleeder resistor is defective or the bleeder ground is disconnected.
3. Discharge the picture tubes anode at any of the R, G, or B outputs on the High Voltage distribution box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemical on or near this instrument or any of its assemblies.
5. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90% - 99% strength).
   **Caution:** This is a flammable mixture.
   Unless specified otherwise in these service data, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
9. Use with this instrument only the test fixtures specified in this service data.
   **CAUTION:** Do not connect the test fixture ground strap to any heatsink in this instrument.

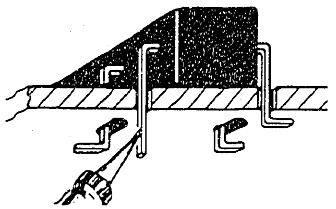
### Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   **CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

### General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an antistatic, suction-type solder removal device or with solder braid.
   **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   **CAUTION:** Work quickly to avoid overheating the circuit board printed foil or components.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron To Pry Leads

### IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas.)

### "Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

### Power Output Transistor Devices Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the circuit board.
4. Insert new transistor in circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

### Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and, if necessary, apply additional solder.

### Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.
2. Securely crimp leads of replacement component around stake 1/8 inch from top.
3. Solder the connections.

**CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

### Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off", the board. The following guidelines and procedures should be followed whenever this condition is encountered.

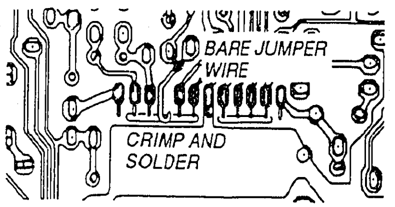
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern and is identified and illustrated in this service data in the section titled Safety Related Copper Pattern (see table of contents for page number). Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

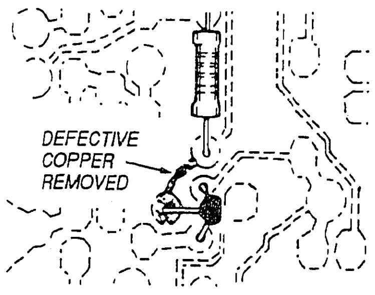


Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wirer from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

**CAUTION:** Be sure the insulated jumper wirer is dressed so that it does not touch components or sharp edges.

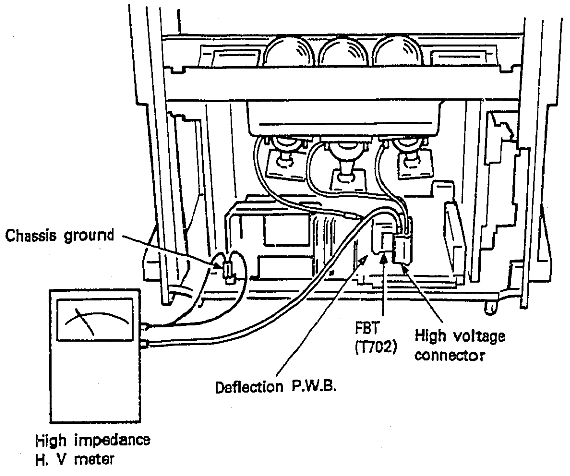
### Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or reinserting FS tuning system modules.
2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.
3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

## TECHNICAL CAUTIONS

High voltage limiter circuit operation check

1. Connect the high voltage voltmeter between the high voltage connector and chassis ground as shown Fig. 2.
2. Set the AC input voltage to 120V.
3. Set picture and black level control fully to +side (max.) of the on-screen indication.
4. Connect the jig as shown in Fig. 2 to POWER SUPPLY P.W.B.
5. Turn the 20 kΩ-B VR of the jig fully clockwise viewed from the knob side.
6. Turn on the set.
7. Gradually turn the 20 kΩ-B VR of the jig counterclockwise and check that the picture disappears when the high voltage is less than 35kV.
8. Turn off the set immediately after checking that the picture disappears.
9. Remove the jig and voltmeter.



POWER SUPPLY P.W.B. (Front view)

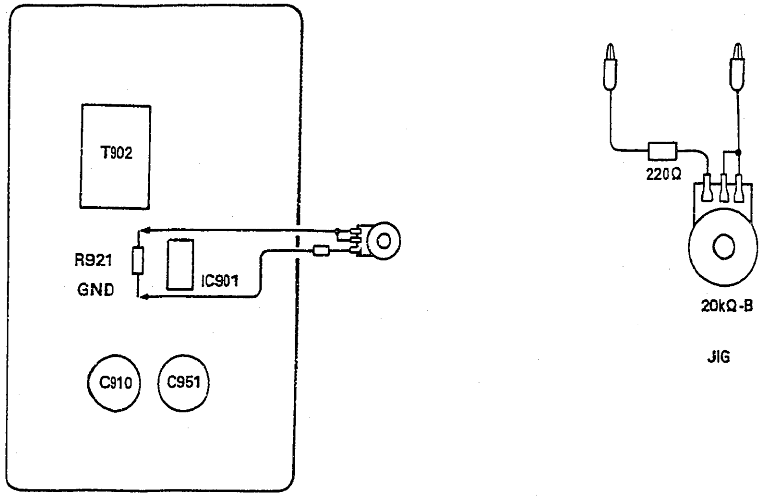


Fig. 2

## SPECIFICATIONS

| | | |
|---|---|---|
| Model: | 50UX10B<br>50UX11K | |
| Cathode-Ray tube: | 80°defrection 7 inch.<br>(180CZB22R/180CGB22G/<br>180CZB22B) | |
| Power Input: | 120 volts AC, 60Hz | |
| Power Consumption: | 310 watts – Maximum<br>210 watts – Operating | |
| Antenna Impedance: | 75 ohm Unbalanced<br>VHF/UHF/CATV | |
| Receiving Channel: | | CH |
| | VHF | 2-13 |
| | UHF | 14-69 |
| | EXT. Mid | (A-2)-(A-1), 4* |
| | CATV Mid | A-I |
| | CATV Super | J-W |
| | CATV Hyper | (W + 1)-(W + 28) |
| | CATV Ultra | (W + 29)-(W + 53) |
| Intermediate Frequency: | Picture I-F Carrier 45.75 MHz<br>Sound I-F Carrier 41.25 MHz<br>Color Sub Carrier 42.17MHz | |
| Video Input: | 1 Voltp-p 75 ohm | |
| Video Output: | 1 Voltp-p 75 ohm | |
| Audio Input: | 0.4 volt rpm, 40 k ohm | |
| Stereo Audio Output: | 0.4 volt rpm, 1 k ohm | |
| Audio Output Power: | Front - 10 watts rms per channel, 8 ohm impedance.<br>Rear - 5 watts rms per channel, 8 ohm impedance. | |

| | |
|---|---|
| Anode Voltage: | 30.0 kV<br>(Zero Beam Current) |
| Brightness: | 500 ft-L Nominal<br>(Peak White) |
| Speakers: | 2 Woofers – 6 inch<br>(16 cm) round<br>2 Tweeters – 2 inch<br>(5 cm) round |
| Dimension: | Width ... 43-5/32<br>Height .. 51-57/64<br>Depth ... 26-31/64 |
| Circuit Board Assemblies: | CPT (B) P.C.B<br>CPT (G) P.C.B<br>CPT (R) P.C.B<br>Convergence Correction P.C.B<br>Signal P.C.B<br>Power Supply P.C.B<br>Deflection P.C.B<br>3-Way P.C.B<br>Pro-Logic P.C.B<br>P in P Selector P.C.B<br>SP Terminal P.C.B<br>Control P.C.B |

## CIRCUIT PROTECTION

| Fuse (or Device) | Circuit Protected | Physical location |
|---|---|---|
| F901 5.0A-125V (AC) | Main Fuse | Signal Circuit Board |
| F903 4.0A-125V (DC) | 〃 | Power Supply Circuit Board |
| F904 4.0A-125V (DC) | Audio Output Circuit | Power Supply Circuit Board |
| F905 1.6A-125V (DC) | Deflection Circuit | Power Supply Circuit Board |

## GENERAL INFORMATION

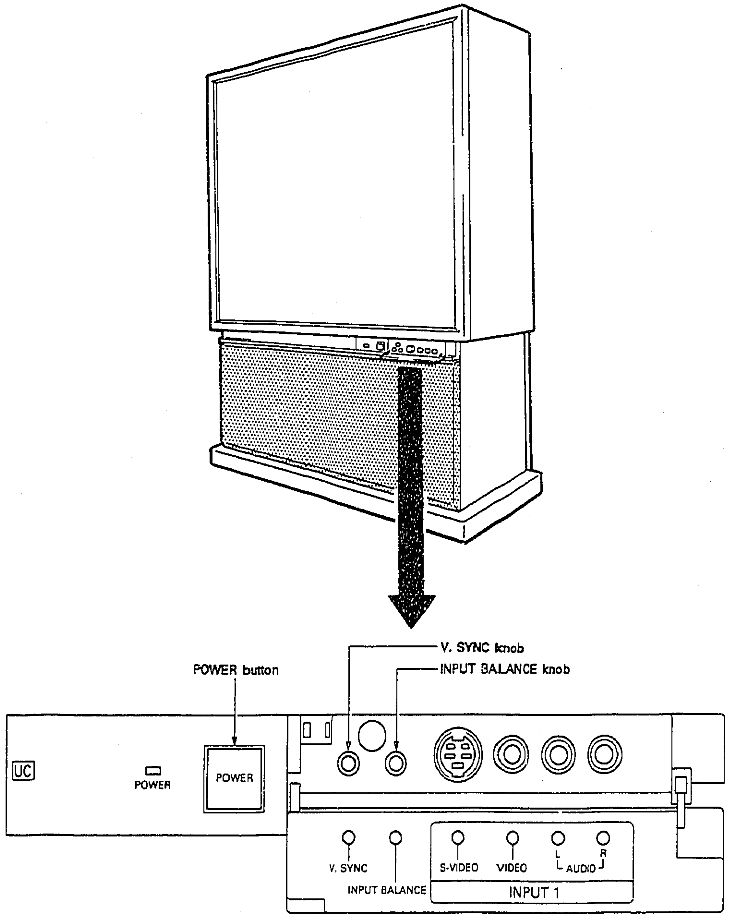

V. SYNC knob
INPUT BALANCE knob
POWER button
UC
POWER
POWER
V. SYNC
INPUT BALANCE
S-VIDEO
VIDEO
L
R
AUDIO
INPUT 1

Fig. 3 Control panel

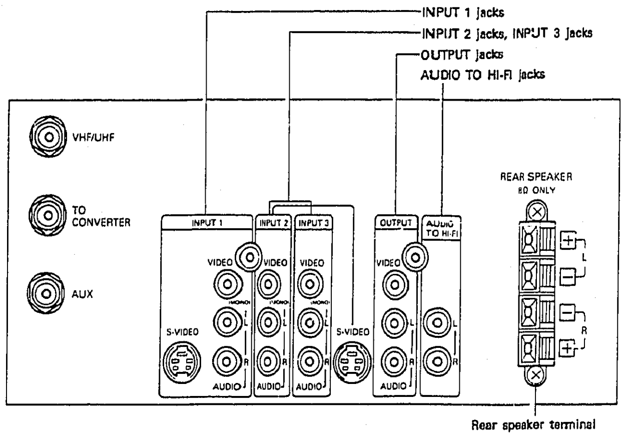

INPUT 1 Jacks
INPUT 2 Jacks, INPUT 3 Jacks
OUTPUT Jacks
AUDIO TO HI-FI Jacks
VHF/UHF
TO CONVERTER
AUX
INPUT 1
INPUT 2
INPUT 3
OUTPUT
AUDIO TO HI-FI
VIDEO
S-VIDEO
L
R
AUDIO
REAR SPEAKER
8Ω ONLY
Rear speaker terminal

Fig. 4 Monitor connection panel

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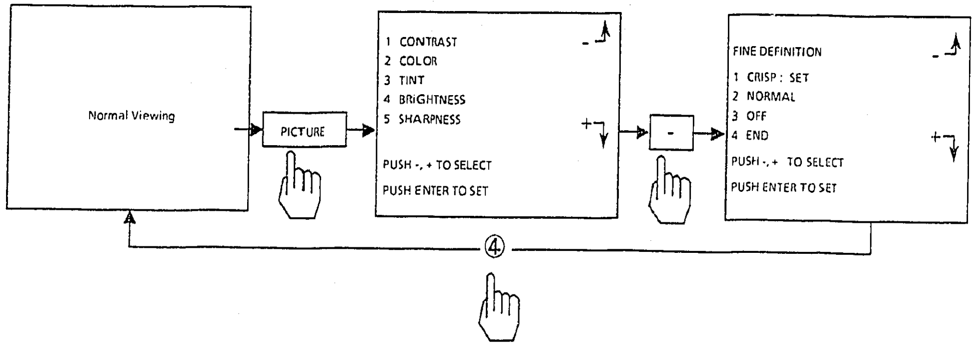
## ADJUSTING FOR PICTURE AND SOUND FUNCTIONS

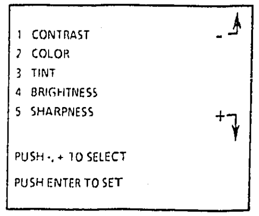
PICTURE BUTTON

Press this button to display the following picture adjustment:

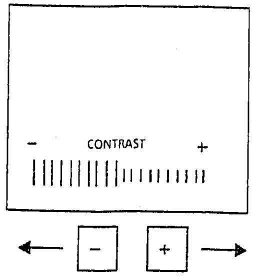

Normal Viewing
PICTURE
1 CONTRAST
2 COLOR
3 TINT
4 BRIGHTNESS
5 SHARPNESS
PUSH -, + TO SELECT
PUSH ENTER TO SET
-
+
-
FINE DEFINITION
1 CRISP : SET
2 NORMAL
3 OFF
4 END
PUSH -, + TO SELECT
PUSH ENTER TO SET
④

Example – "CONTRAST" adjustment

(1) Press "PICTURE" button on Remote Control.


1 CONTRAST
2 COLOR
3 TINT
4 BRIGHTNESS
5 SHARPNESS
PUSH -, + TO SELECT
PUSH ENTER TO SET
-
+

(2) Press number button "1" to select CONTRAST.



Press " – " button to decrease contrast, or press " + " button to increase contrast.

## Adjustment for Picture

- **CONTRAST adjustment**

The "CONTRAST" function adjusts the overall brightness and contrast of the picture.

(1) Press PICTURE button once to get Picture adjustment menu.

(2) Press number button "1"or "ENTER" button to select CONTRAST.

(3) Press " + " button repeatedly to increase contrast, or press " – " button repeatedly to decrease contrast.

- **COLOR adjustment**

The "COLOR" function adjusts the amount of color in the picture.

(1) Press PICTURE button once to get Picture adjustment menu.

(2) Press number button "2" to select COLOR.

(3) Press " + " button repeatedly to increase color, or press " – " button repeately to decrease color.

- **TINT adjustment**

The "TINT" function adjusts the color of flesh tones.

(1) Press PICTURE button once to get Picture adjustment menu.

(2) Press numer button "3" to select TINT.

(3) Press " + " button repeatedly to add more red tint, or press " – " button repeatedly to add more green tint.

- **BRIGHTNESS**

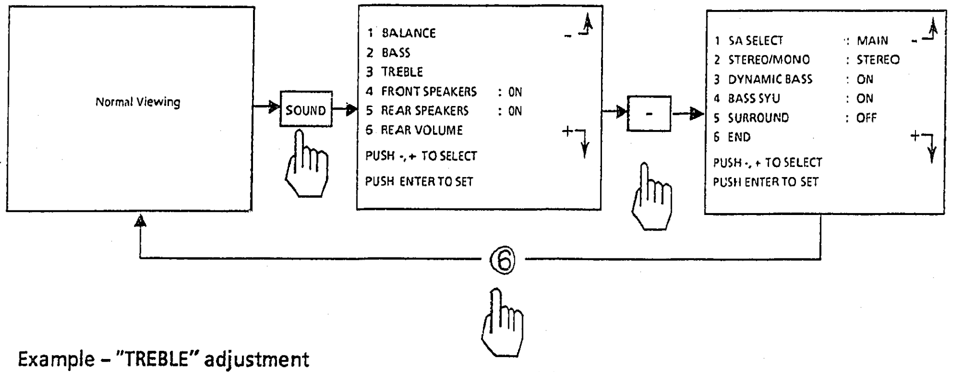
The "BRIGHTNESS" function adjusts the brightness of the dark portion of the picture.
(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "4" to select BRIGHTNESS.
(3) Press "+" button repeatedly to increase brightness, or press "–" button repeatedly to decrease brightness.

- **SHARPNESS**

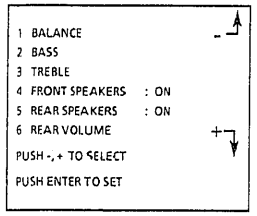
The "SHARPNESS" function adjusts picture sharpness.
(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "5" to select SHARPNESS.
(3) Press "+" button repeatedly to increase sharpness, or press "–" button repeatedly to decrease sharpness.

## SOUND BUTTON

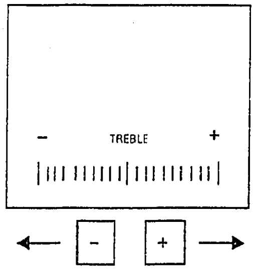
Press this button to display the following sound adjustment:


Normal Viewing
SOUND
1 BALANCE
2 BASS
3 TREBLE
4 FRONT SPEAKERS : ON
5 REAR SPEAKERS : ON
6 REAR VOLUME
PUSH -,+ TO SELECT
PUSH ENTER TO SET
-
1 SA SELECT : MAIN
2 STEREO/MONO : STEREO
3 DYNAMIC BASS : ON
4 BASS SYU : ON
5 SURROUND : OFF
6 END
PUSH -,+ TO SELECT
PUSH ENTER TO SET
⑥

Example - "TREBLE" adjustment
(1) Press "SOUND" button on remote control.


1 BALANCE
2 BASS
3 TREBLE
4 FRONT SPEAKERS : ON
5 REAR SPEAKERS : ON
6 REAR VOLUME
PUSH -,+ TO SELECT
PUSH ENTER TO SET

(2) Press number button "3" to select TREBLE.



Press "–" button to decrease treble, or press "+" button to increase treble.

## Adjustment for Sound

- **BALANCE adjustment**

The "BALANCE" function adjusts the right / left balance of sound from the speakers.
(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "1" to select BALANCE.
(3) Press "+" button repeatedly to increase sound level from right speaker, or press "–" button repeatedly to increase sound level from left speaker.

- **BASS adjustment**

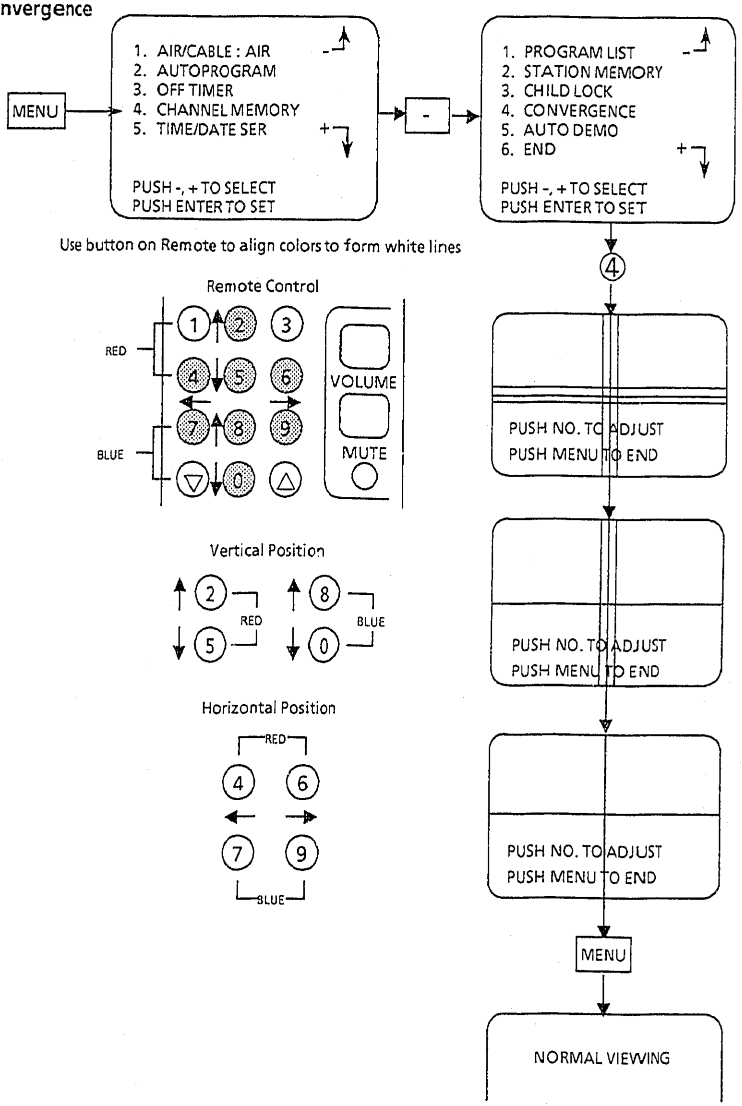
The "BASS" function adjusts the low frequency audio.
(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "2" to select BASS.
(3) Press "+" button repeatedly to increase bass, or press "–" button repeatedly to decrease bass.

- **TREBLE adjustment**

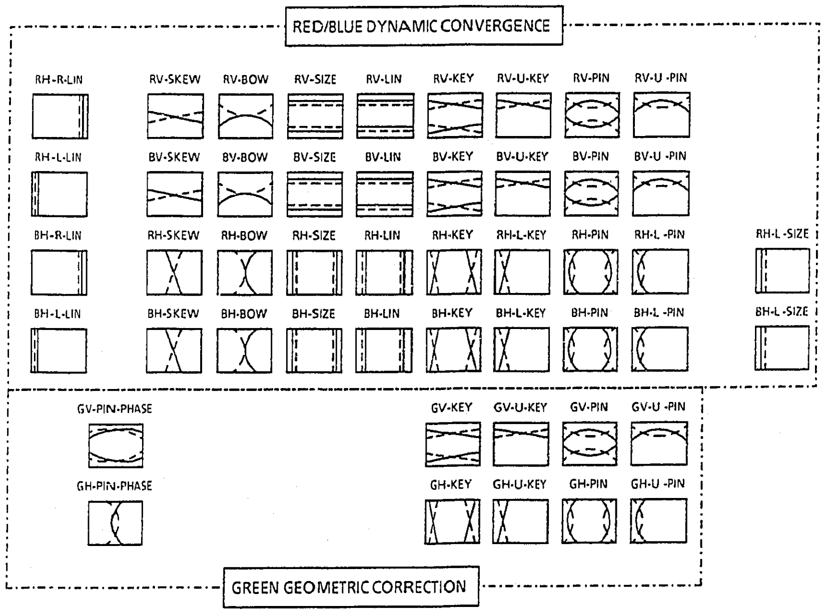
The "TREBLE" function adjusts the high frequency audio.
(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "3" to select TREBLE.
(3) Press "+" button repeatedly to increase bass, or press "–" button repeatedly to decrease bass.

## CONVERGENCE ADJUSTMENT

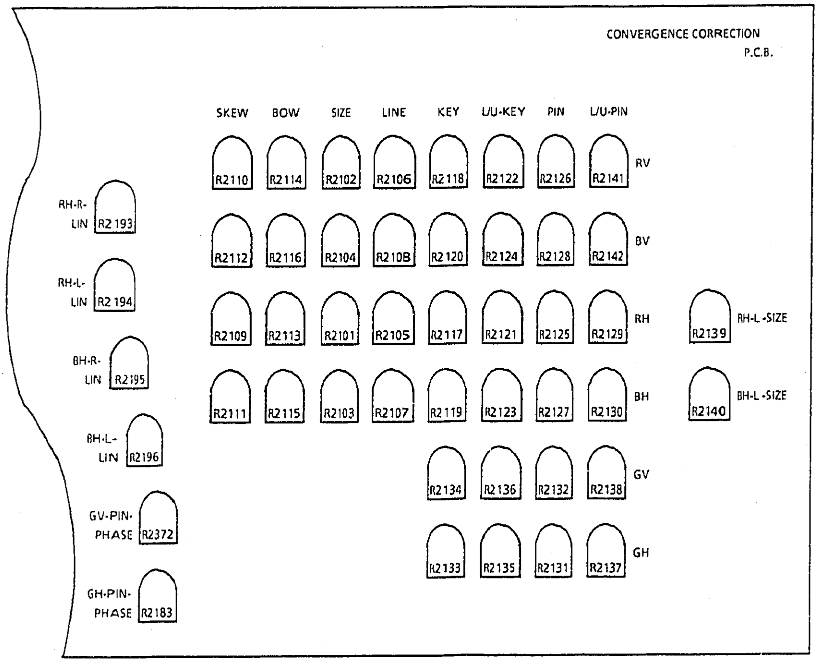
Static Convergence


MENU
1. AIR/CABLE : AIR
2. AUTOPROGRAM
3. OFF TIMER
4. CHANNEL MEMORY
5. TIME/DATE SER
PUSH -, + TO SELECT
PUSH ENTER TO SET
-
1. PROGRAM LIST
2. STATION MEMORY
3. CHILD LOCK
4. CONVERGENCE
5. AUTO DEMO
6. END
PUSH -, + TO SELECT
PUSH ENTER TO SET
④
Use button on Remote to align colors to form white lines
Remote Control
RED
BLUE
VOLUME
MUTE
PUSH NO. TO ADJUST
PUSH MENU TO END
Vertical Position
RED
BLUE
PUSH NO. TO ADJUST
PUSH MENU TO END
Horizontal Position
RED
BLUE
PUSH NO. TO ADJUST
PUSH MENU TO END
MENU
NORMAL VIEWING

## Dynamic Convergence


RED/BLUE DYNAMIC CONVERGENCE
RH-R-LIN
RV-SKEW
RV-BOW
RV-SIZE
RV-LIN
RV-KEY
RV-U-KEY
RV-PIN
RV-U-PIN
RH-L-LIN
BV-SKEW
BV-BOW
BV-SIZE
BV-LIN
BV-KEY
BV-U-KEY
BV-PIN
BV-U-PIN
BH-R-LIN
RH-SKEW
RH-BOW
RH-SIZE
RH-LIN
RH-KEY
RH-L-KEY
RH-PIN
RH-L-PIN
RH-L-SIZE
BH-L-LIN
BH-SKEW
BH-BOW
BH-SIZE
BH-LIN
BH-KEY
BH-L-KEY
BH-PIN
BH-L-PIN
BH-L-SIZE
GV-PIN-PHASE
GV-KEY
GV-U-KEY
GV-PIN
GV-U-PIN
GH-PIN-PHASE
GH-KEY
GH-U-KEY
GH-PIN
GH-U-PIN
GREEN GEOMETRIC CORRECTION

## Layout of the Adjustment VR


CONVERGENCE CORRECTION
P.C.B.
SKEW
BOW
SIZE
LINE
KEY
U/U-KEY
PIN
U/U-PIN
R2110
R2114
R2102
R2106
R2118
R2122
R2126
R2141
RV
R2112
R2116
R2104
R2108
R2120
R2124
R2128
R2142
BV
R2109
R2113
R2101
R2105
R2117
R2121
R2125
R2129
RH
R2139
RH-L-SIZE
R2111
R2115
R2103
R2107
R2119
R2123
R2127
R2130
BH
R2140
BH-L-SIZE
R2134
R2136
R2132
R2138
GV
R2133
R2135
R2131
R2137
GH
RH-R-LIN R2193
RH-L-LIN R2194
BH-R-LIN R2195
BH-L-LIN R2196
GV-PIN-PHASE R2372
GH-PIN-PHASE R2183

## CAUTIONS WHEN CONNECTING/DISCONNECTING THE HV CONNECTOR

Perform the following when the HV connector (anode connector) is removed or inserted for CPT replacement, etc.

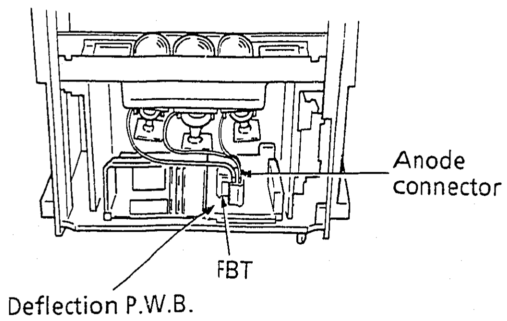

Anode connector
FBT
Deflection P.W.B.

Fig. 5

- During removal

(1) Insert a small flat-bladed screwdriver (adjustment screwdriver : 5 - 7 mm wide and 0.2 - 0.3 mm thick) into section Ⓐ in Fig.6 and then push it in the direction of arrow Ⓑ. The lock will release with a click. (The state in Fig.8 - (1) will change to that in Fig.8 - (2).)

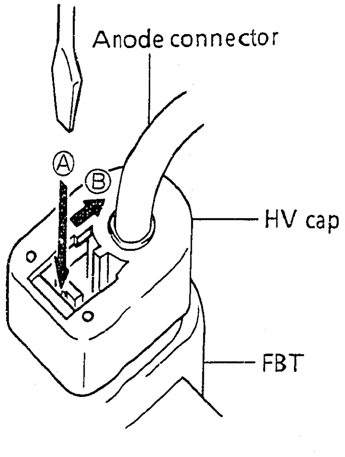

Anode connector
Ⓐ
Ⓑ
HV cap
FBT

Fig. 6

(2) Remove the HV cap and remove the anode connector (Fig. 7).

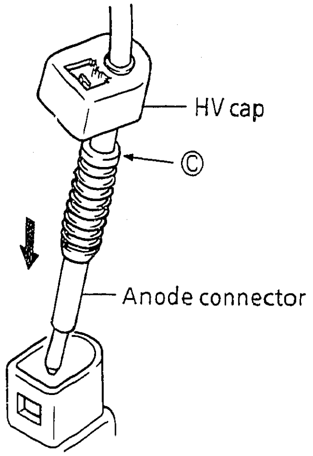
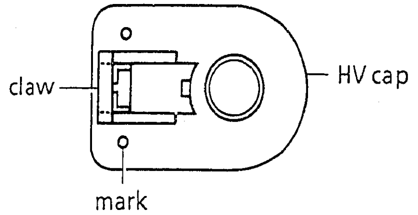

HV cap
Ⓒ
Anode connector

Fig. 7

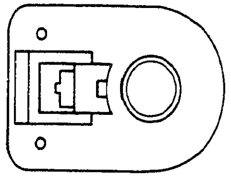
- During insertion

(1) Insert the anode connector deep into the FBT (to section Ⓒ in Fig.7) and then push the HV cap into the FBT until it clicks.

(2) Make sure the connector is securely inserted. (Check that the claw is at the mark on the HV cap shown as in Fig.8 - (1).)


claw
HV cap
mark

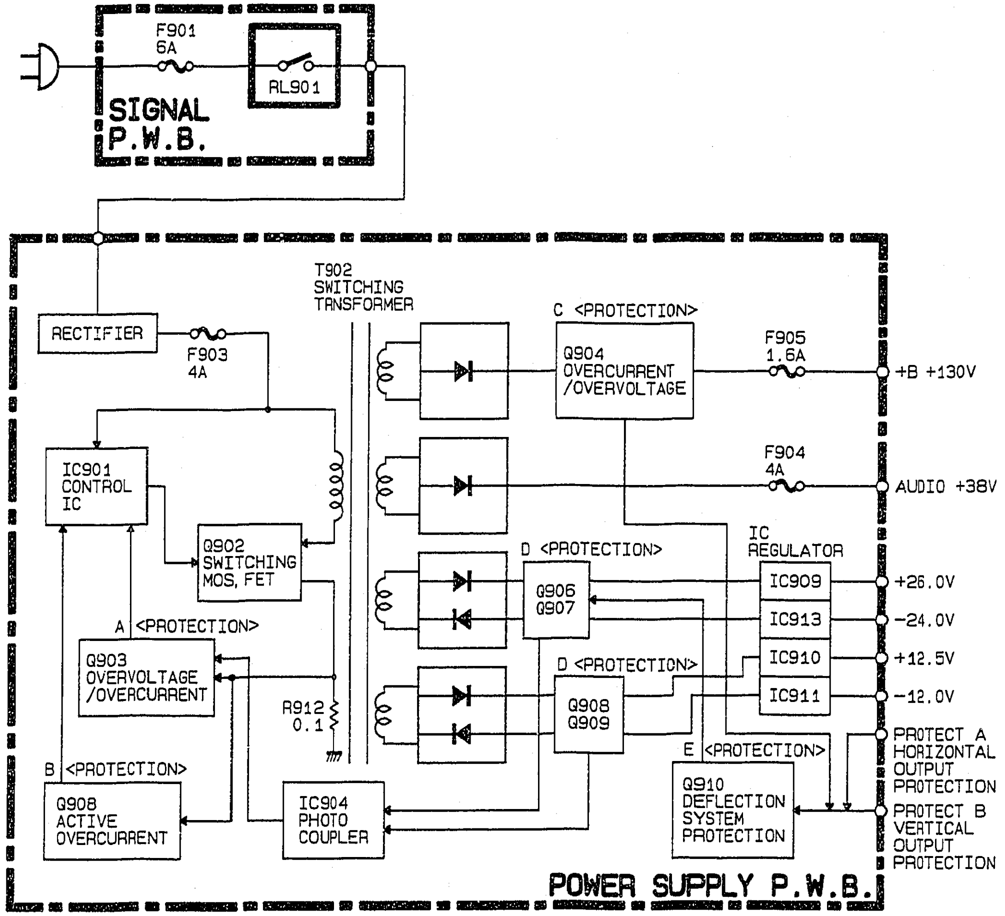
(1) Lock on
(When connector is inserted)



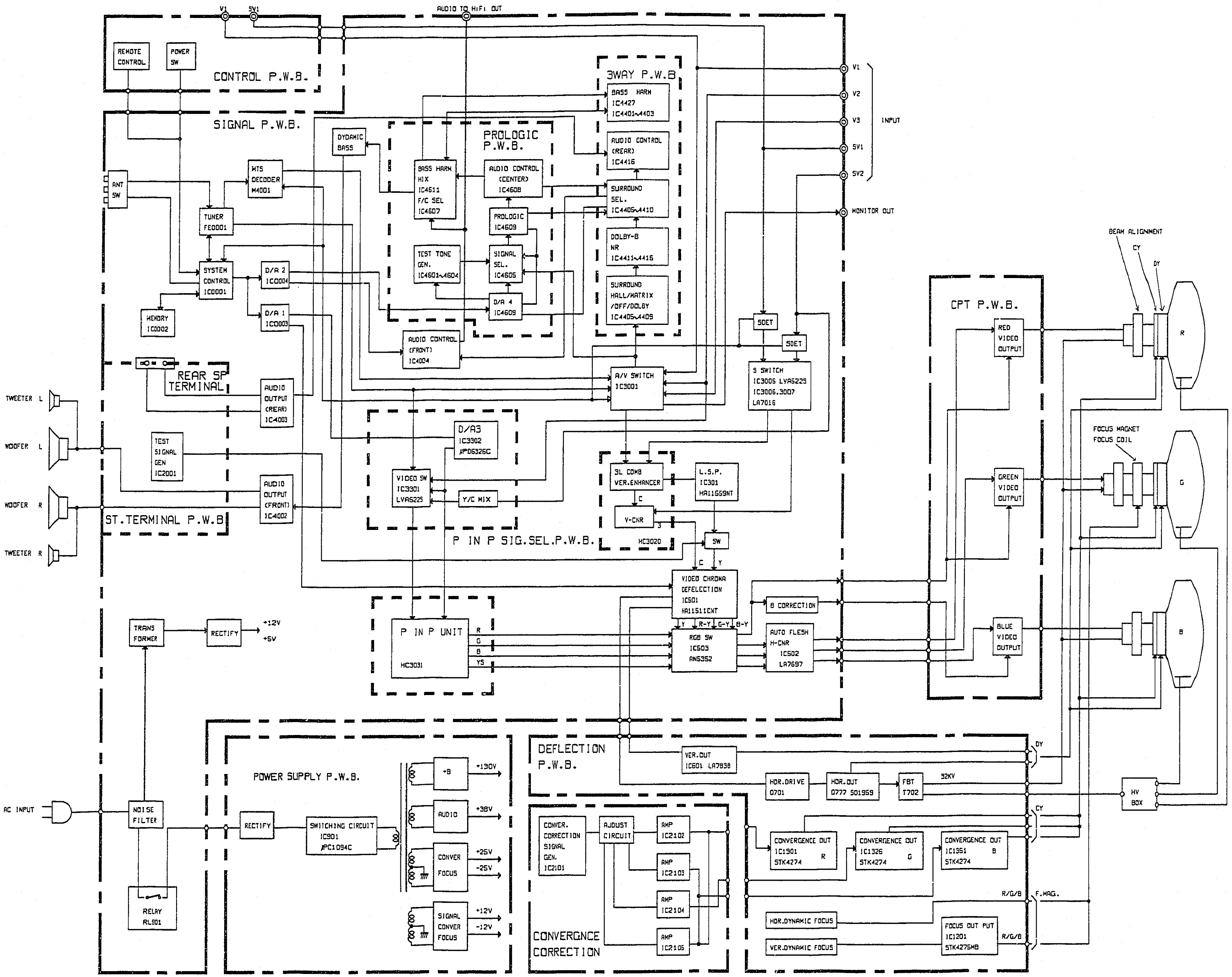
(2) Release
(When connector is removed)

Fig. 8

# PROTECT CIRCUIT BLOCK DIAGRAM

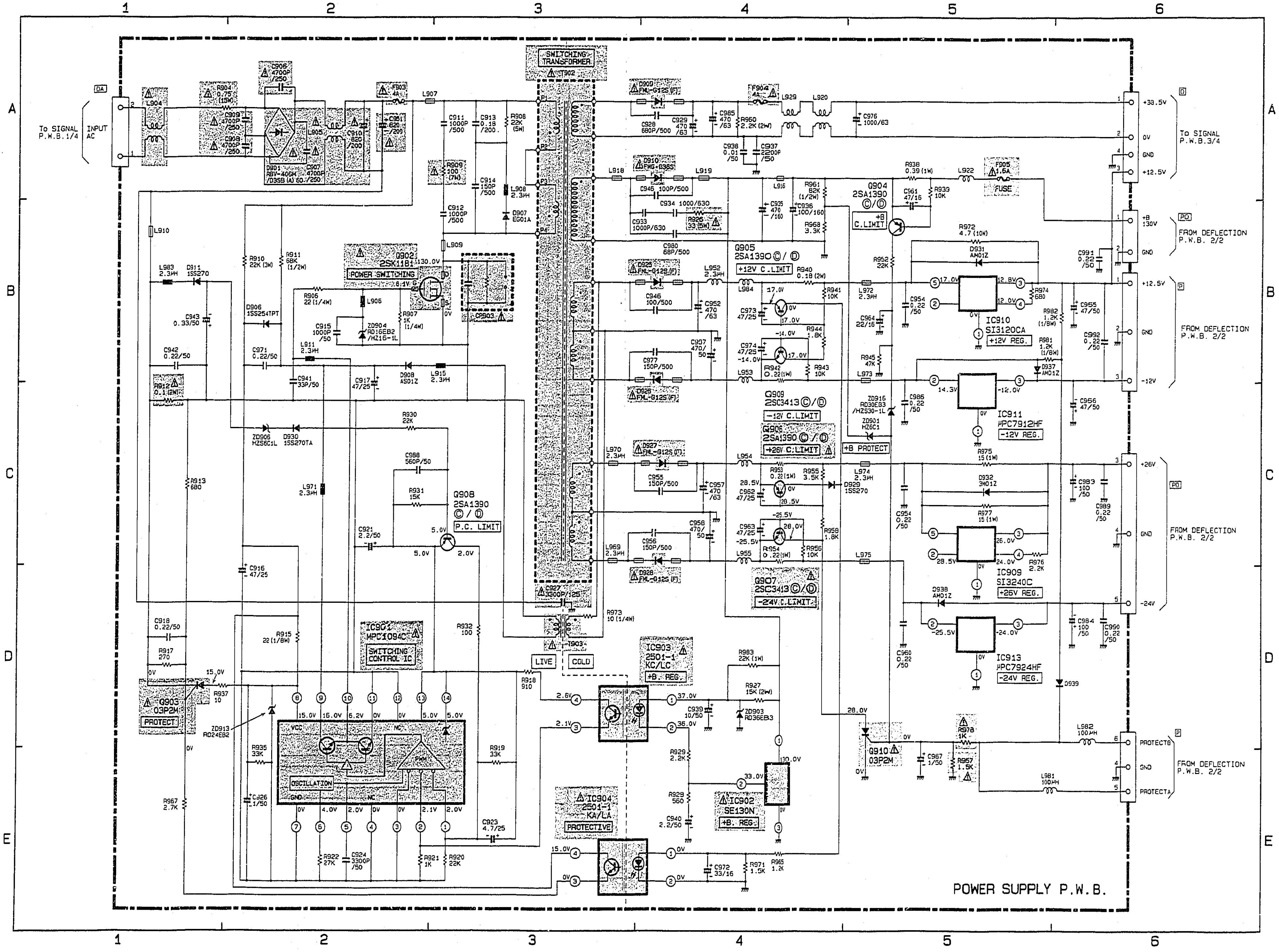

F901
6A
RL901
SIGNAL P.W.B.
RECTIFIER
F903
4A
T902
SWITCHING
TRNSFORMER
C <PROTECTION>
Q904
OVERCURRENT
/OVERVOLTAGE
F905
1.6A
+B +130V
F904
4A
AUDIO +38V
IC901
CONTROL
IC
Q902
SWITCHING
MOS, FET
IC
REGULATOR
D <PROTECTION>
Q906
Q907
IC909
+26.0V
IC913
-24.0V
IC910
+12.5V
IC911
-12.0V
A <PROTECTION>
Q903
OVERVOLTAGE
/OVERCURRENT
D <PROTECTION>
Q908
Q909
R912
0.1
PROTECT A
HORIZONTAL
OUTPUT
PROTECTION
E <PROTECTION>
Q910
DEFLECTION
SYSTEM
PROTECTION
PROTECT B
VERTICAL
OUTPUT
PROTECTION
B <PROTECTION>
Q908
ACTIVE
OVERCURRENT
IC904
PHOTO
COUPLER
POWER SUPPLY P.W.B.

# BLOCK DIAGRAM


V1
SV1
AUDIO TO HiFi OUT
REMOTE CONTROL
POWER SW
CONTROL P.W.B.
SIGNAL P.W.B.
DYNAMIC BASS
PROLOGIC P.W.B.
BASS HARM MIX IC4611 F/C SEL IC4607
AUDIO CONTROL (CENTER) IC4608
PROLOGIC IC4609
TEST TONE GEN. IC4601~4604
SIGNAL SEL. IC4605
D/A 4 IC4609
3WAY P.W.B
BASS HARM IC4427 IC4401~4403
AUDIO CONTROL (REAR) IC4416
SURROUND SEL. IC4405~4410
DOLBY-B NR IC4411~4415
SURROUND HALL/MATRIX /OFF/DOLBY IC4405~4409
V1
V2
V3
SV1
SV2
INPUT
MONITOR OUT
ANT SW
MTS DECODER M4001
TUNER FE0001
SYSTEM CONTROL IC0001
D/A 2 IC0004
D/A 1 IC0003
MEMORY IC0002
AUDIO CONTROL (FRONT) IC4024
SDET
SDET
A/V SWITCH IC3001
S SWITCH IC3005 LVA5225 IC3006,3007 LA7016
REAR SP TERMINAL
AUDIO OUTPUT (REAR) IC4003
TEST SIGNAL GEN IC2001
AUDIO OUTPUT (FRONT) IC4002
ST.TERMINAL P.W.B
TWEETER L
WOOFER L
WOOFER R
TWEETER R
D/A3 IC3302 μPD6326C
VIDEO SW IC3301 LVA5225
Y/C MIX
P IN P SIG.SEL.P.W.B.
3L COMB VER.ENHANCER
C
V-CNR
3
HC3020
L.S.P. IC301 HA11559NT
SW
C
Y
VIDEO CHROMA DEFELECTION IC501 HA11511CNT
Y R-Y G-Y B-Y
B CORRECTION
RGB SW IC503 AN5352
AUTO FLESH H-CNR IC502 LA7697
P IN P UNIT
HC3031
R
G
B
YS
CPT P.W.B.
RED VIDEO OUTPUT
GREEN VIDEO OUTPUT
BLUE VIDEO OUTPUT
BEAM ALIGNMENT
CY
DY
R
FOCUS MAGNET
FOCUS COIL
G
B
TRANS FORMER
RECTIFY
+12V
+5V
AC INPUT
NOISE FILTER
RELAY RL901
POWER SUPPLY P.W.B.
RECTIFY
SWITCHING CIRCUIT IC901 μPC1094C
+B
+130V
AUDIO
+38V
CONVER FOCUS
+25V
-25V
SIGNAL CONVER FOCUS
+12V
-12V
DEFLECTION P.W.B.
VER.OUT IC601 LA7838
HOR.DRIVE Q701
HOR.OUT Q777 501959
FBT T702
32KV
HV BOX
DY
CY
CONVER. CORRECTION SIGNAL GEN. IC2101
ADJUST CIRCUIT
AMP IC2102
AMP IC2103
AMP IC2104
AMP IC2105
CONVERGNCE CORRECTION
CONVERGENCE OUT IC1301 R STK4274
CONVERGENCE OUT IC1326 G STK4274
CONVERGENCE OUT IC1351 B STK4274
R/G/B
F.MAG.
HOR.DYNAMIC FOCUS
VER.DYNAMIC FOCUS
FOCUS OUT PUT IC1201 STK4275MB
R/G/B

# BASIC CIRCUIT DIAGRAM

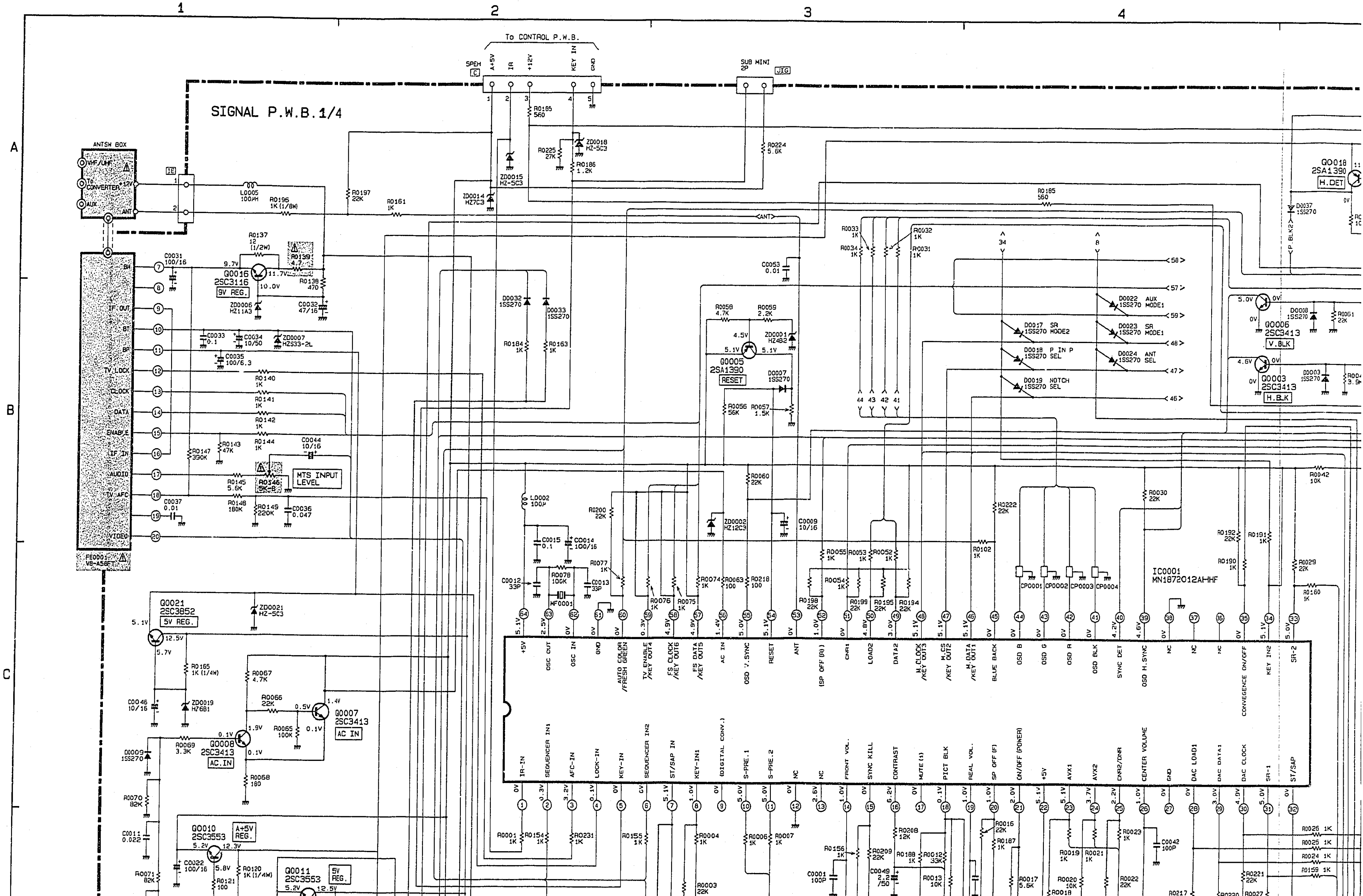
**PRODUCT SAFETY NOTE:** Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver though improper servicing.


To SIGNAL P.W.B.1/4
INPUT AC
SWITCHING TRANSFORMER T902
Q902 2SK1181 POWER SWITCHING
IC901 MPC1094C SWITCHING CONTROL IC
OSCILLATION
PWM
Q905 03P2M PROTECT
Q908 2SA1390 ©/Ⓓ P.C. LIMIT
IC903 2501-1 KC/LC +B. REG.
IC904 2501-1 KA/LA PROTECTIVE
IC902 SE130N +B. REG.
LIVE
COLD
Q904 2SA1390 ©/Ⓓ +B C.LIMIT
Q905 2SA1390©/Ⓓ +12V C.LIMIT
Q909 2SC3413©/Ⓓ -12V C.LIMIT
Q906 2SA1390©/Ⓓ +26V C.LIMIT
Q907 2SC3413©/Ⓓ -24V C.LIMIT
+B PROTECT
IC910 SI3120CA +12V REG.
IC911 μPC7912HF -12V REG.
IC909 SI3240C +26V REG.
IC913 μPC7924HF -24V REG.
Q910 03P2M
F905 1.6A FUSE
+33.5V
0V
GND
+12.5V
To SIGNAL P.W.B.3/4
+B 130V
FROM DEFLECTION P.W.B. 2/2
-12V
+26V
-24V
PROTECTB
PROTECTA
POWER SUPPLY P.W.B.
1
2
3
4
5
6
A
B
C
D
E

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

# BASIC CIRCUIT DIAGRAM

PRODUCT
replacing a
of the rec



1
2
3
4
A
B
C
To CONTROL P.W.B.
SPEH
A+5V
IR
+12V
KEY IN
GND
SUB MINI
JIG
SIGNAL P.W.B.1/4
ANTSW BOX
VHF/UHF
To CONVERTER
AUX
ANT
+12V
L0005 100μH
R0195 1K (1/8W)
R0197 22K
R0161 1K
R0185 560
R0225 27K
ZD0018 HZ-5C3
R0186 1.2K
ZD0015 HZ-5C3
ZD0014 HZ7C3
R0224 5.6K
<ANT>
Q0018 2SA1390
H.DET
D0037 1SS270
P.BLK2
C0031 100/16
R0137 12 (1/2W)
R0139 4.7
Q0016 2SC3116
9V REG.
ZD0006 HZ11A3
R0138 470
C0032 47/16
9.7V
11.7V
10.0V
IF OUT
BT
BP
TV LOCK
CLOCK
DATA
ENABLE
IF IN
AUDIO
TV AFC
VIDEO
C0033 0.1
C0034 10/50
ZD0007 HZS33-2L
C0035 100/6.3
R0140 1K
R0141 1K
R0142 1K
R0143 47K
R0144 1K
R0147 390K
C0044 10/16
R0145 5.6K
R0146 5K-B
MTS INPUT LEVEL
R0148 180K
R0149 220K
C0036 0.047
C0037 0.01
FE0001 V8-A56E
D0032 1SS270
D0033 1SS270
R0184 1K
R0163 1K
C0053 0.01
R0058 4.7K
R0059 2.2K
ZD0001 HZ4B2
Q0005 2SA1390
RESET
4.5V
5.1V
D0007 1SS270
R0056 56K
R0057 1.5K
R0033 1K
R0034 1K
R0032 1K
R0031 1K
44 43 42 41
34
8
<58>
<57>
<59>
<48>
<47>
<46>
D0022 AUX 1SS270 MODE1
D0017 SR 1SS270 MODE2
D0023 SR 1SS270 MODE1
D0018 P IN P 1SS270 SEL
D0024 ANT 1SS270 SEL
D0019 NOTCH 1SS270 SEL
Q0006 2SC3413
V.BLK
D0008 1SS270
R0061 22K
Q0003 2SC3413
H.BLK
D0003 1SS270
L0002 100μ
C0015 0.1
C0014 100/16
R0200 22K
ZD0002 HZ12C3
R0060 22K
C0009 10/16
R0222 22K
R0030 22K
R0042 10K
C0012 33P
R0078 10K
XF0001
C0013 33P
R0077 1K
R0076 1K
R0075 1K
R0074 1K
R0063 100
R0218 100
R0055 1K
R0053 1K
R0052 1K
R0054 1K
R0198 22K
R0199 22K
R0195 22K
R0194 22K
R0102 1K
CP0001
CP0002
CP0003
CP0004
IC0001 MN1872012AHHF
R0192 22K
R0191 1K
R0190 1K
R0029 22K
R0160 1K
+5V
OSC OUT
OSC IN
GND
AUTO COLOR /FRESH GREEN
TV ENABLE /KEY OUT4
FS CLOCK /KEY OUT6
FS DATA /KEY OUT5
AC IN
OSD V.SYNC
RESET
ANT
SP OFF (R)
CNR1
LOAD2
DATA2
H.CLOCK /KEY OUT3
H.CS /KEY OUT2
H.DATA /KEY OUT1
BLUE BACK
OSD B
OSD G
OSD R
OSD BLK
SYNC DET
OSD H.SYNC
NC
CONVEGENCE ON/OFF
KEY IN2
SR-2
IR-IN
SEQUENCER IN1
AFC-IN
LOCK-IN
KEY-IN
SEQUENCER IN2
ST/SAP IN
KEY-IN1
(DIGITAL CONV.)
S-PRE.1
S-PRE.2
FRONT VOL.
SYNC KILL
CONTRAST
MUTE (1)
PICT BLK
REAL VOL.
SP OFF (F)
ON/OFF (POWER)
AVX1
AVX2
CNR2/DNR
CENTER VOLUME
DAC LOAD1
DAC DATA1
DAC CLOCK
SR-1
ST/SAP
Q0021 2SC3852
5V REG.
ZD0021 HZ-5C3
12.5V
5.7V
R0165 1K (1/4W)
C0046 10/16
ZD0019 HZ6B1
R0067 4.7K
R0066 22K
Q0007 2SC3413
AC IN
R0065 100K
R0069 3.3K
Q0008 2SC3413
AC.IN
D0009 1SS270
R0068 180
R0070 82K
C0011 0.022
Q0010 2SC3553
A+5V REG.
C0022 100/16
R0120 1K (1/4W)
R0121 100
R0071 82K
Q0011 2SC3553
5V REG.
R0001 1K
R0154 1K
R0231 1K
R0155 1K
R0004 1K
R0003 22K
R0006 1K
R0007 1K
R0156 1K
C0001 100P
R0209 22K
C0049 2.2/50
R0208 12K
R0188 1K
R0012 33K
R0013 10K
R0016 22K
R0187 1K
R0017 5.6K
R0019 1K
R0021 1K
R0020 10K
R0018
R0023 1K
C0042 100P
R0022 22K
R0026 1K
R0025 1K
R0024 1K
R0159 1K
R0221 22K
R0217
R0220
R0027

## BASIC CIRCUIT DIAGRAM

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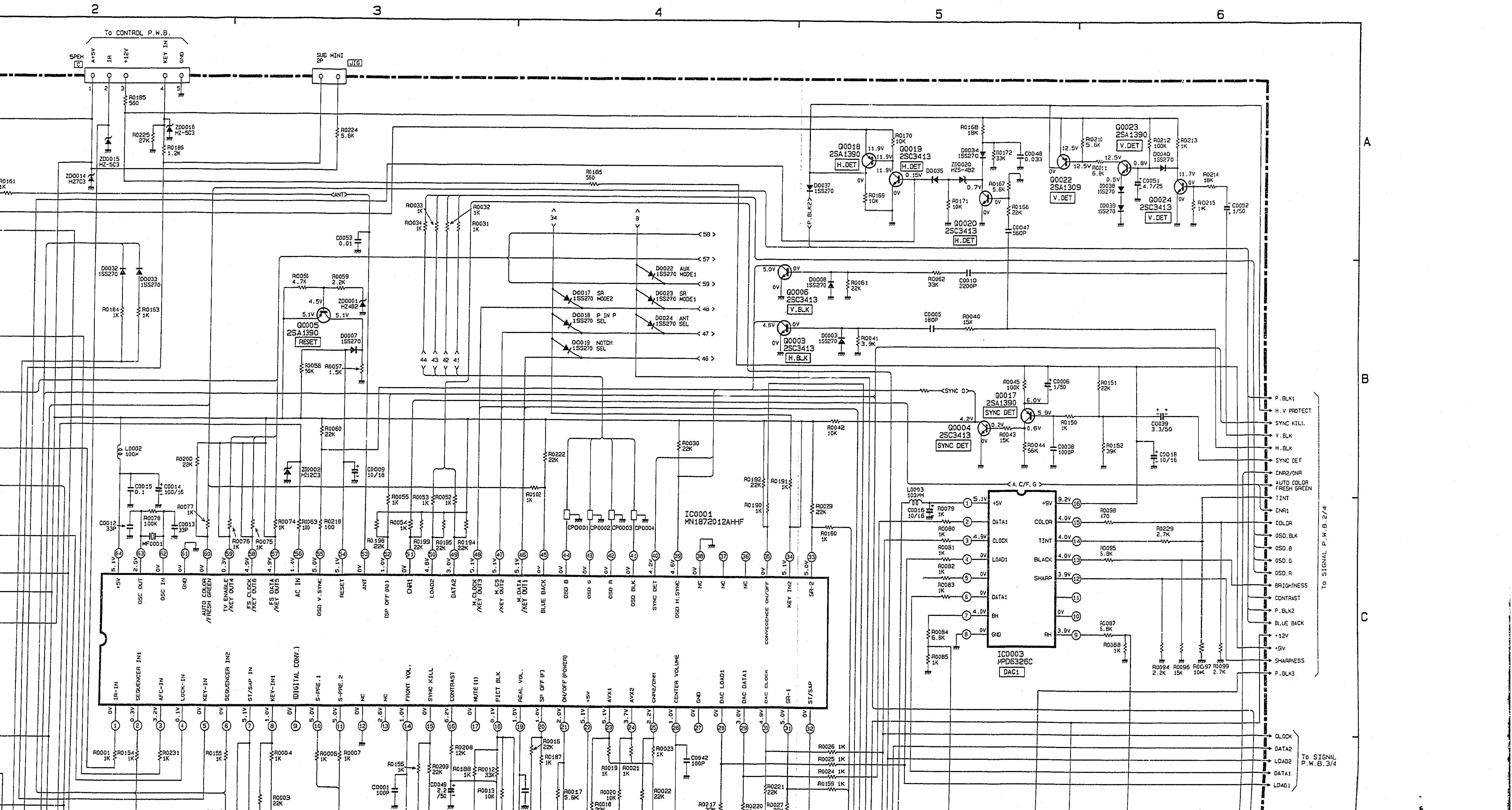
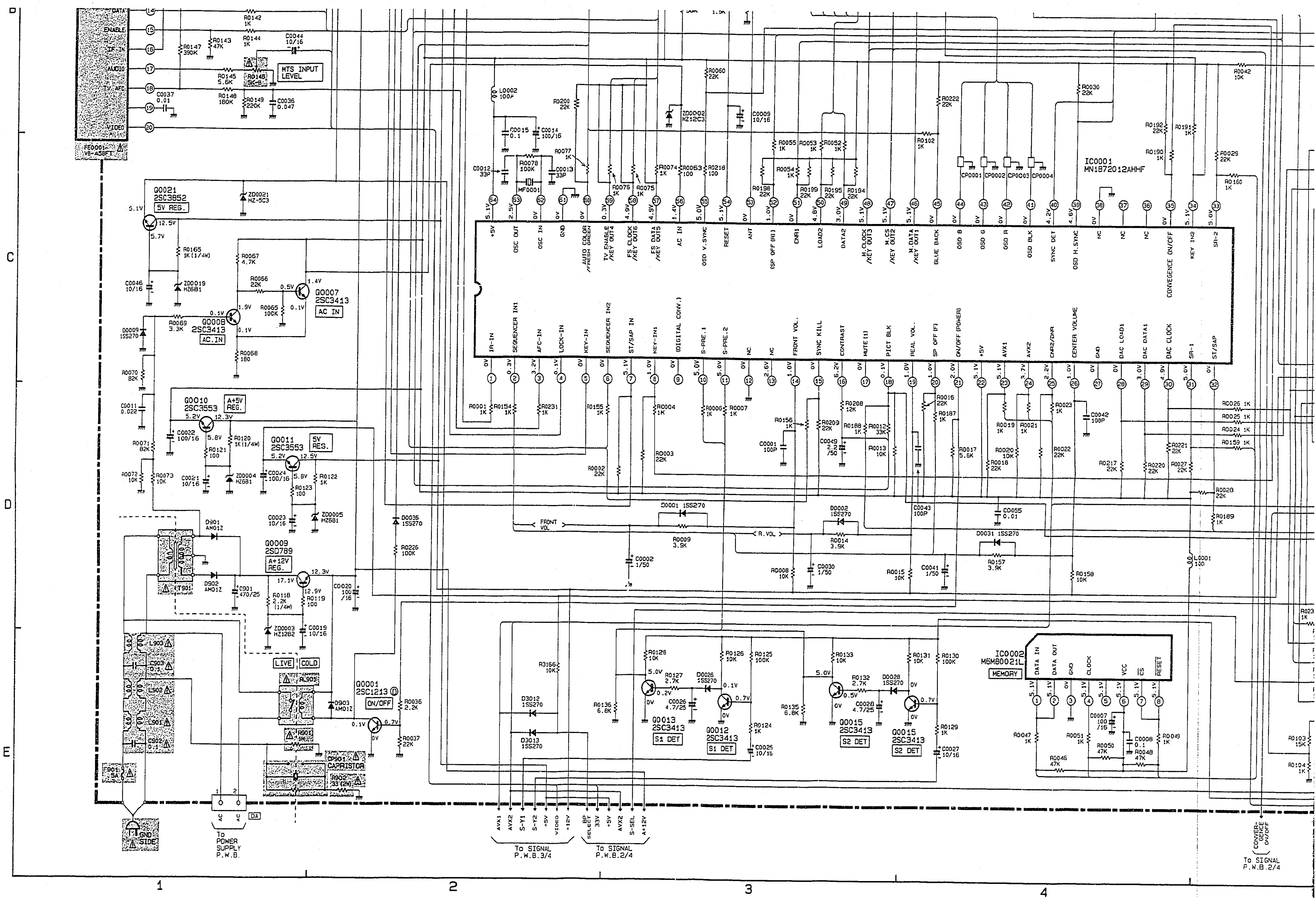
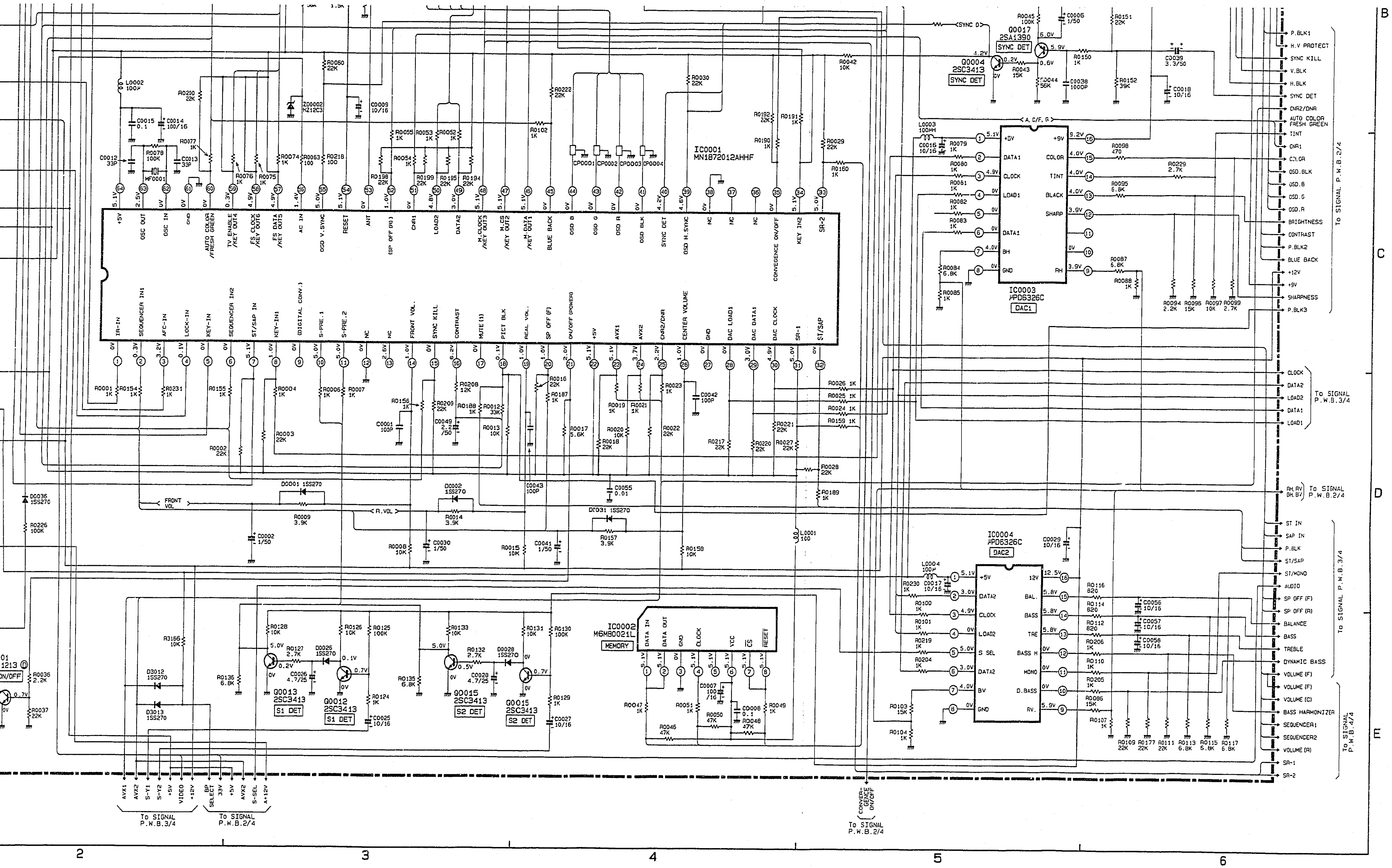

2
3
4
5
6
A
B
C
To CONTROL P.W.B.
SPEH
A+5V
IR
+12V
KEY IN
GND
SUB MINI 2P
JIG
R0185 560
R0224 5.6K
R0225 27K
ZD0018 HZ-5C3
R0186 1.2K
ZD0015 HZ-5C3
ZD0014 HZ7C3
R0161 1K
<ANT>
R0033 1K
R0034 1K
R0032 1K
R0031 1K
C0053 0.01
D0032 1SS270
D0033 1SS270
R0184 1K
R0163 1K
R0058 4.7K
R0059 2.2K
ZD0001 HZ4B2
Q0005 2SA1390 RESET
D0007 1SS270
R0056 56K
R0057 1.5K
D0022 1SS270 AUX MODE1
D0017 1SS270 SR MODE2
D0023 1SS270 SR MODE1
D0018 1SS270 P IN P SEL
D0024 1SS270 ANT SEL
D0019 1SS270 NOTCH SEL
58
57
59
48
47
46
34
8
44 43 42 41
Q0018 2SA1390 H.DET
Q0019 2SC3413 H.DET
R0170 10K
R0169 10K
D0035
D0037 1SS270
P.BLK2
R0168 18K
D0034 1SS270
ZD0020 HZS-4B2
R0172 33K
C0048 0.033
R0171 10K
R0167 5.6K
R0166 22K
C0047 560P
Q0020 2SC3413 H.DET
Q0023 2SA1390 V.DET
R0210 5.6K
R0211 6.8K
R0212 100K
R0213 1K
D0040 1SS270
D0038 1SS270
D0039 1SS270
C0051 4.7/25
R0214 18K
R0215 1K
C0052 1/50
Q0022 2SA1309 V.DET
Q0024 2SC3413 V.DET
Q0006 2SC3413 V.BLK
D0008 1SS270
R0061 22K
R0062 33K
C0010 2200P
C0005 180P
R0040 15K
Q0003 2SC3413 H.BLK
D0003 1SS270
R0041 3.9K
SYNC D
R0045 100K
C0006 1/50
R0151 22K
Q0017 2SA1390 SYNC DET
Q0004 2SC3413 SYNC DET
R0043 15K
R0150 1K
R0044 56K
C0038 1000P
R0152 39K
C0039 3.3/50
C0018 10/16
R0042 10K
R0060 22K
R0222 22K
R0030 22K
R0200 22K
L0002 100μ
C0015 0.1
C0014 100/16
C0012 33P
R0076 100K
C0013 33P
MF0001
R0077 1K
ZD0002 HZ12C3
C0009 10/16
R0055 1K
R0053 1K
R0052 1K
R0054 1K
R0102 1K
R0074 1K
R0063 100
R0218 100
R0076 1K
R0075 1K
R0198 22K
R0199 22K
R0195 22K
R0194 22K
CP0001 CP0002 CP0003 CP0004
IC0001 MN1872012AHHF
R0192 22K
R0191 1K
R0190 1K
R0029 22K
R0160 1K
+5V
OSC OUT
OSC IN
GND
AUTO COLOR /FRESH GREEN
TV ENABLE /KEY OUT4
FS CLOCK /KEY OUT6
FS DATA /KEY OUT5
AC IN
OSD V.SYNC
RESET
ANT
(SP OFF (R))
CNR1
LOAD2
DATA2
M.CLOCK /KEY OUT3
M.CS /KEY OUT2
M.DATA /KEY OUT1
BLUE BACK
OSD B
OSD G
OSD R
OSD BLK
SYNC DET
OSD H.SYNC
NC
NC
NC
CONVERGENCE ON/OFF
KEY IN2
SR-2
IR-IN
SEQUENCER IN1
AFC-IN
LOCK-IN
KEY-IN
SEQUENCER IN2
ST/SAP IN
KEY-IN1
(DIGITAL CONV.)
S-PRE.1
S-PRE.2
NC
NC
FRONT VOL.
SYNC KILL
CONTRAST
MUTE (1)
PICT BLK
REAL VOL.
SP OFF (F)
ON/OFF (POWER)
+5V
AVX1
AVX2
CNR2/DNR
CENTER VOLUME
GND
DAC LOAD1
DAC DATA1
DAC CLOCK
SR-1
ST/SAP
L0003 100μH
C0016 10/16
R0079 1K
R0080 1K
R0081 1K
R0082 1K
R0083 1K
R0084 6.8K
R0085 1K
IC0003 μPD6326C DAC1
+5V
DATA1
CLOCK
LOAD1
DATA1
BH
GND
+9V
COLOR
TINT
BLACK
SHARP
RH
A, C/F, G
R0098 470
R0229 2.7K
R0095 6.8K
R0087 6.8K
R0088 1K
R0094 2.2K
R0096 15K
R0097 10K
R0099 2.7K
P.BLK1
H.V PROTECT
SYNC KILL
V.BLK
H.BLK
SYNC DET
CNR2/DNR
AUTO COLOR FRESH GREEN
TINT
CNR1
COLOR
OSD.BLK
OSD.B
OSD.G
OSD.R
BRIGHTNESS
CONTRAST
P.BLK2
BLUE BACK
+12V
+9V
SHARPNESS
P.BLK3
To SIGNAL P.W.B.2/4
CLOCK
DATA2
LOAD2
DATA1
LOAD1
To SIGNAL P.W.B.3/4
R0026 1K
R0025 1K
R0024 1K
R0159 1K
R0001 1K
R0154 1K
R0231 1K
R0155 1K
R0004 1K
R0006 1K
R0007 1K
R0003 22K
R0156 1K
R0209 22K
R0208 12K
R0188 1K
R0012 33K
C0001 100P
C0049 2.2/50
R0013 10K
R0016 22K
R0187 1K
R0017 5.6K
R0019 10K
R0021 1K
R0020 10K
R0018
R0023 1K
C0042 100P
R0022 22K
R0217
R0220
R0027
R0221 22K


DATA
ENABLE
IF-IN
AUDIO
AFC
VIDEO
FE0001 VS-A58FT
R0142 1K
R0143 47K
R0144 1K
R0147 390K
C0044 10/16
R0145 5.6K
R0146 5K-B
MTS INPUT LEVEL
R0148 180K
R0149 220K
C0036 0.047
C0037 0.01
Q0021 2SC3852 5V REG.
ZD0021 HZ-5C3
R0165 1K (1/4W)
C0046 10/16
ZD0019 HZ6B1
R0067 4.7K
R0066 22K
Q0007 2SC3413 AC IN
Q0008 2SC3413 AC.IN
R0065 100K
R0069 3.3K
D0009 1SS270
R0068 180
R0070 82K
C0011 0.022
Q0010 2SC3553 A+5V REG.
C0022 100/16
R0120 1K (1/4W)
R0121 100
R0071 82K
R0072 10K
R0073 10K
C0021 10/16
ZD0004 HZ6B1
Q0011 2SC3553 5V REG.
C0024 100/16
R0122 1K
R0123 100
C0023 10/16
ZD0005 HZ6B1
D0036 1SS270
R0226 100K
D901 AM01Z
D902 AM01Z
T901
C901 470/25
Q0009 2SD789 A+12V REG.
R0118 2.2K (1/4W)
R0119 100
C0020 100 /16
ZD0003 HZ12B2
C0019 10/16
LIVE
COLD
RL901
D903 AM01Z
Q0001 2SC1213 ON/OFF
R0036 2.2K
R0037 22K
R901 1M
CP901 CAPRISTOR
R902 33 (2W)
L903
C903 0.1
L902
L901
C902 0.1
F901 5A
GND SIDE
AC
DA
To POWER SUPPLY P.W.B.
L0002 100μ
C0015 0.1
C0014 100/16
C0012 33P
R0078 100K
C0013 33P
MF0001
R0077 1K
R0200 22K
ZD0002 HZ12C3
R0060 22K
C0009 10/16
R0076 1K
R0075 1K
R0074 1K
R0063 100
R0218 100
R0055 1K
R0053 1K
R0052 1K
R0054 1K
R0198 22K
R0199 22K
R0195 22K
R0194 22K
R0222 22K
R0102 1K
CP0001
CP0002
CP0003
CP0004
R0030 22K
IC0001 MN1872012AHHF
R0192 22K
R0191 1K
R0190 1K
R0042 10K
R0029 22K
R0160 1K
+5V
OSC OUT
OSC IN
GND
AUTO COLOR /FRESH GREEN
TV ENABLE /KEY OUT4
FS CLOCK /KEY OUT6
FS DATA /KEY OUT5
AC IN
OSD V.SYNC
RESET
ANT
(SP OFF (R))
CNR1
LOAD2
DATA2
H.CLOCK /KEY OUT3
H.CS /KEY OUT2
H.DATA /KEY OUT1
BLUE BACK
OSD B
OSD G
OSD R
OSD BLK
SYNC DET
OSD H.SYNC
NC
CONVEGENCE ON/OFF
KEY IN2
SR-2
IR-IN
SEQUENCER IN1
AFC-IN
LOCK-IN
KEY-IN
SEQUENCER IN2
ST/SAP IN
KEY-IN1
(DIGITAL CONV.)
S-PRE.1
S-PRE.2
FRONT VOL.
SYNC KILL
CONTRAST
MUTE (I)
PICT BLK
REAL VOL.
SP OFF (F)
ON/OFF (POWER)
AVX1
AVX2
CNR2/DNR
CENTER VOLUME
DAC LOAD1
DAC DATA1
DAC CLOCK
SR-1
ST/SAP
R0001 1K
R0154 1K
R0231 1K
R0155 1K
R0004 1K
R0006 1K
R0007 1K
R0003 22K
R0002 22K
R0156 1K
C0001 100P
R0209 22K
R0208 12K
R0188 1K
R0012 33K
C0049 2.2 /50
R0013 10K
R0016 22K
R0187 1K
R0017 5.6K
R0019 1K
R0021 1K
R0020 10K
R0018 22K
R0023 1K
C0042 100P
R0022 22K
R0217 22K
R0220 22K
R0027 22K
R0026 1K
R0025 1K
R0024 1K
R0159 1K
R0221 22K
R0028 22K
R0189 1K
D0001 1SS270
FRONT VOL
R0009 3.9K
C0002 1/50
D0002 1SS270
R.VOL
R0014 3.9K
C0043 100P
C0055 0.01
D0031 1SS270
R0157 3.9K
R0008 10K
C0030 1/50
R0015 10K
C0041 1/50
R0158 10K
L0001 100
R3166 10K
D3012 1SS270
D3013 1SS270
R0128 10K
R0127 2.7K
D0026 1SS270
R0136 6.8K
C0026 4.7/25
Q0013 2SC3413 S1 DET
Q0012 2SC3413 S1 DET
R0126 10K
R0125 100K
R0124 1K
C0025 10/16
R0133 10K
R0132 2.7K
D0028 1SS270
R0135 6.8K
C0028 4.7/25
Q0015 2SC3413 S2 DET
Q0015 2SC3413 S2 DET
R0131 10K
R0130 100K
R0129 1K
C0027 10/16
IC0002 M6M80021L MEMORY
DATA IN
DATA OUT
GND
CLOCK
VCC
CS
RESET
R0047 1K
R0051 1K
C0007 100 /16
R0050 47K
C0008 0.1
R0048 47K
R0049 1K
R0046 47K
R0103 15K
R0104 1K
R023 1K
AVX1
AVX2
S-Y1
S-Y2
+5V
VIDEO
+12V
To SIGNAL P.W.B.3/4
BP SELECT
33V
+5V
AVX2
S-SEL
A+12V
To SIGNAL P.W.B.2/4
CONVER-GENCE ON/OFF
To SIGNAL P.W.B.2/4
C
D
E
1
2
3
4

• Since this is a basic circuit di

• All DC voltage to be measured


IC0001
MN1872012AHHF
IC0002
M6M80021L
MEMORY
IC0003
µPD6326C
DAC1
IC0004
µPD6326C
DAC2
Q0017
2SA1390
SYNC DET
Q0004
2SC3413
SYNC DET
Q0013
2SC3413
S1 DET
Q0012
2SC3413
S1 DET
Q0015
2SC3413
S2 DET
Q0015
2SC3413
S2 DET
+5V
OSC OUT
OSC IN
GND
AUTO COLOR /FRESH GREEN
TV ENABLE /KEY OUT4
FS CLOCK /KEY OUT6
FS DATA /KEY OUT5
AC IN
OSD V.SYNC
RESET
ANT
SP OFF (R)
CNR1
LOAD2
DATA2
M.CLOCK /KEY OUT3
M.CS /KEY OUT2
M.DATA /KEY OUT1
BLUE BACK
OSD B
OSD G
OSD R
OSD BLK
SYNC DET
OSD H.SYNC
NC
CONVERGENCE ON/OFF
KEY IN2
SR-2
IR-IN
SEQUENCER IN1
AFC-IN
LOCK-IN
KEY-IN
SEQUENCER IN2
ST/SAP IN
KEY-IN1
(DIGITAL CONV.)
S-PRE.1
S-PRE.2
FRONT VOL.
SYNC KILL
CONTRAST
MUTE (1)
PICT BLK
REAL VOL.
SP OFF (F)
ON/OFF (POWER)
AVX1
AVX2
CNR2/DNR
CENTER VOLUME
DAC LOAD1
DAC DATA1
DAC CLOCK
SR-1
ST/SAP
FRONT VOL
R.VOL
SYNC D
A.C/F.G
DATA1
CLOCK
LOAD1
BH
COLOR
TINT
BLACK
SHARP
RH
DATA2
LOAD2
S SEL
BV
BAL.
BASS
TRE
BASS H
MONO
D.BASS
RV.
DATA IN
DATA OUT
VCC
CS
P.BLK1
H.V PROTECT
SYNC KILL
V.BLK
H.BLK
SYNC DET
CNR2/DNR
AUTO COLOR FRESH GREEN
TINT
CNR1
COLOR
OSD.BLK
OSD.B
OSD.G
OSD.R
BRIGHTNESS
CONTRAST
P.BLK2
BLUE BACK
+12V
+9V
SHARPNESS
P.BLK3
To SIGNAL P.W.B.2/4
CLOCK
DATA2
LOAD2
DATA1
LOAD1
To SIGNAL P.W.B.3/4
RH,RV
BH,BV
To SIGNAL P.W.B.2/4
ST IN
SAP IN
P.BLK
ST/SAP
ST/MONO
AUDIO
SP OFF (F)
SP OFF (R)
BALANCE
BASS
TREBLE
DYNAMIC BASS
VOLUME (F)
To SIGNAL P.W.B.3/4
VOLUME (F)
VOLUME (C)
BASS HARMONIZER
SEQUENCER1
SEQUENCER2
VOLUME (R)
SR-1
SR-2
To SIGNAL P.W.B.4/4
AVX1
AVX2
S-Y1
S-Y2
+5V
VIDEO
+12V
To SIGNAL P.W.B.3/4
BP SELECT
33V
+5V
AVX2
S-SEL
A+12V
To SIGNAL P.W.B.2/4
CONVERGENCE ON/OFF
To SIGNAL P.W.B.2/4
ON/OFF
B
C
D
E
2
3
4
5
6

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

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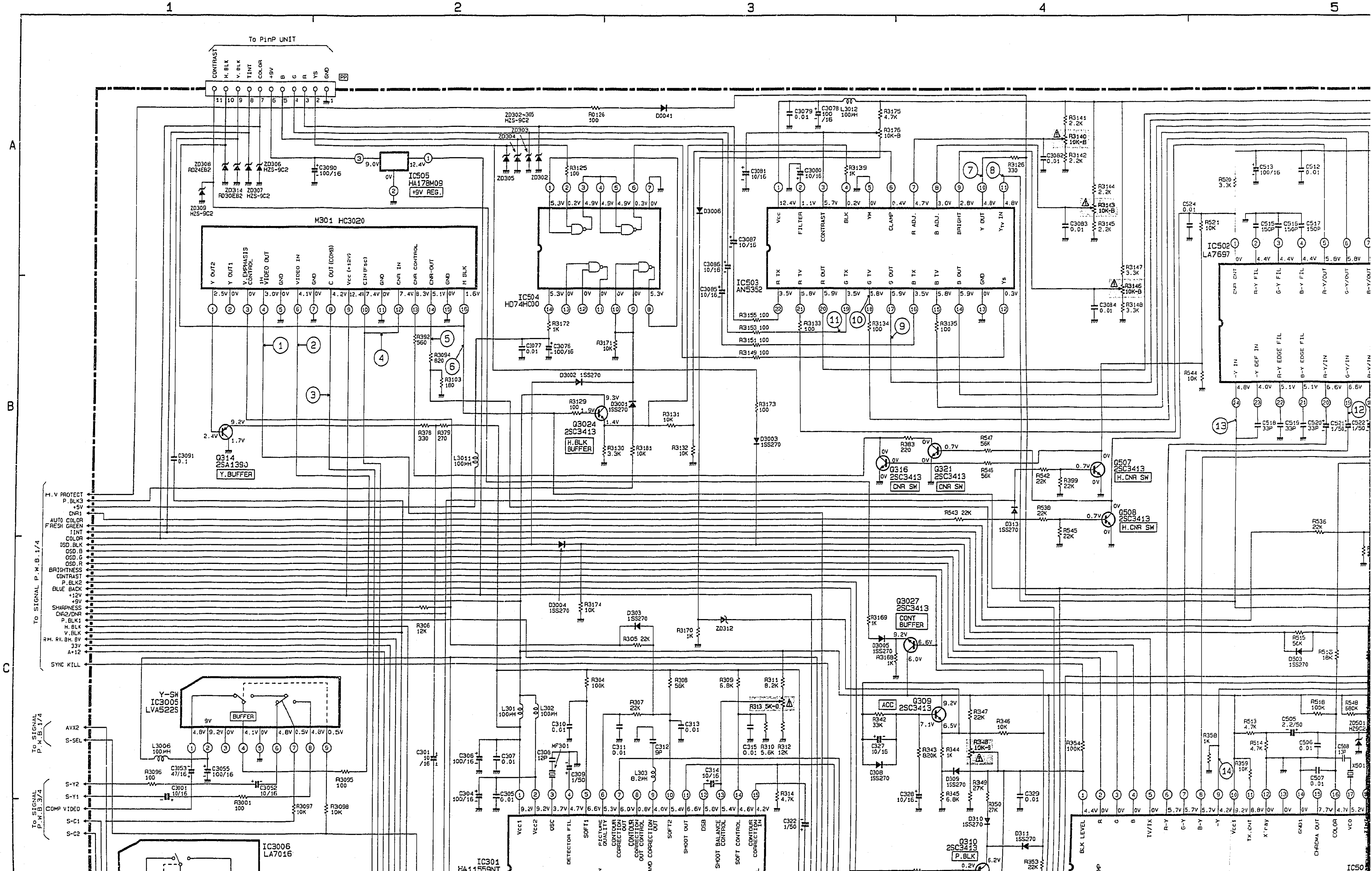
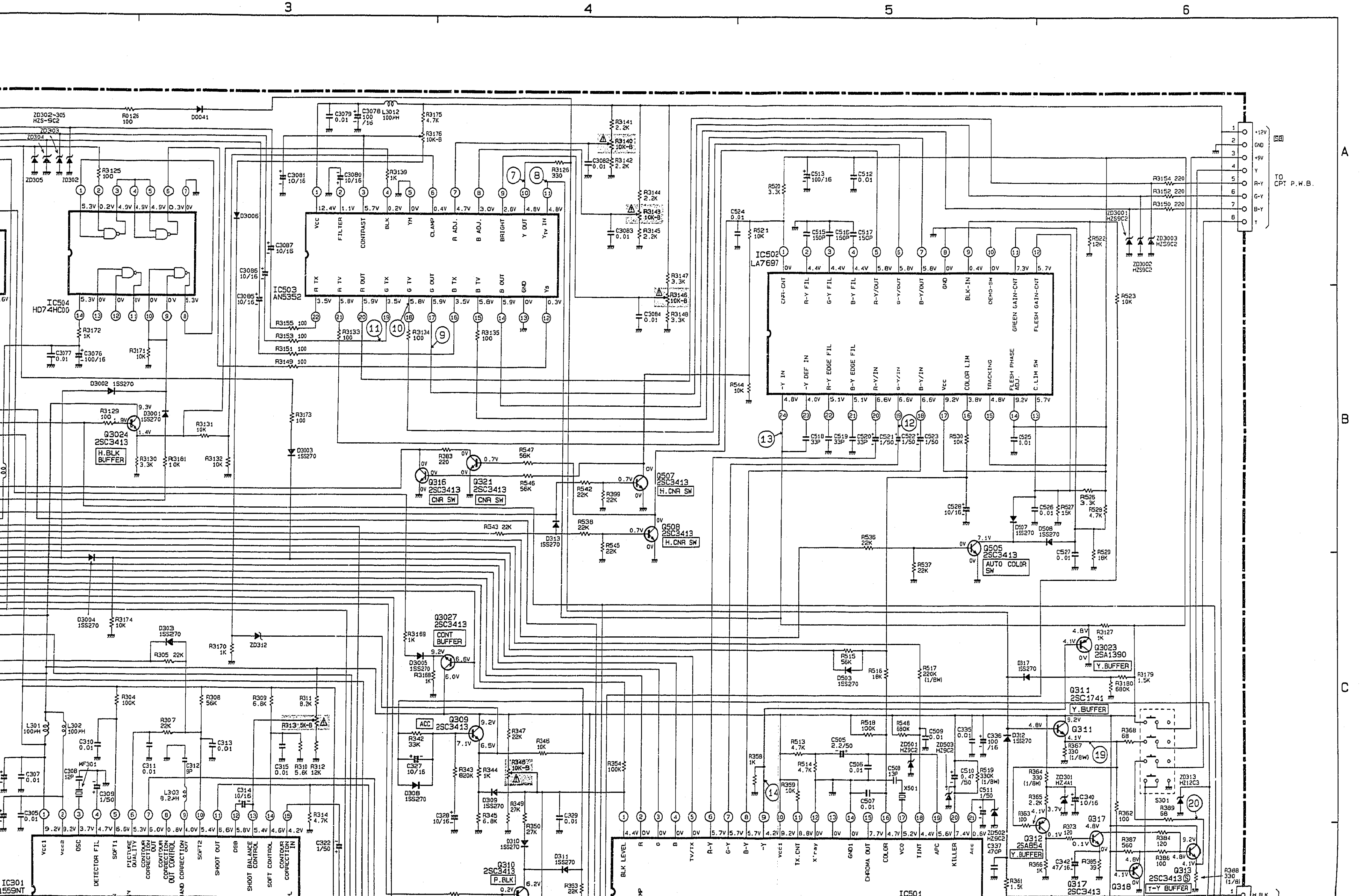
# BASIC CIRCUIT DIAGRAM

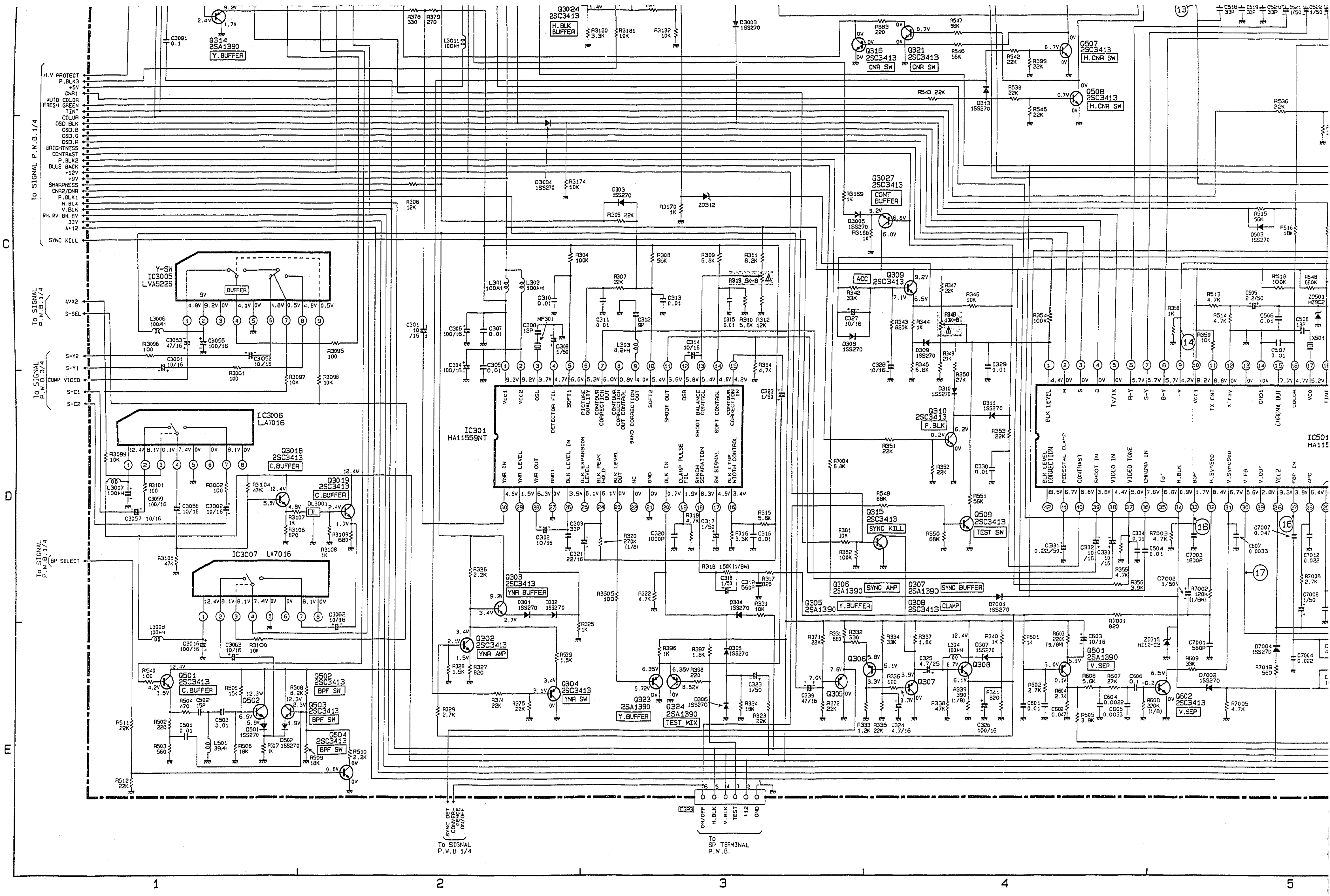

1
2
3
4
5
A
B
C
To PinP UNIT
CONTRAST
H.BLK
V.BLK
TINT
COLOR
+9V
B
G
R
YS
GND
PP
M301 HC3020
Y OUT2
Y OUT1
V EMPHASIS CONTROL
1H VIDEO OUT
GND
VIDEO IN
GND
C OUT (COMB)
Vcc (+12V)
CIN (Fsc)
GND
CNR IN
CNR CONTROL
CNR-OUT
GND
H BLK
IC505
HA178M09
+9V REG.
IC504
HD74HC00
IC503
AN5352
Vcc
FILTER
CONTRAST
BLK
YH
CLAMP
R ADJ.
B ADJ.
BRIGHT
Y OUT
Ytv IN
R TX
R TV
R OUT
G TX
G TV
G OUT
B TX
B TV
B OUT
GND
Ys
IC502
LA7697
Q314
2SA1390
Y.BUFFER
Q3024
2SC3413
H.BLK BUFFER
Q316
2SC3413
CNR SW
Q321
2SC3413
CNR SW
Q507
2SC3413
H.CNR SW
Q508
2SC3413
H.CNR SW
Q3027
2SC3413
CONT BUFFER
Q309
2SC3413
ACC
Q310
2SC3413
P.BLK
Y-SW
IC3005
LVA522S
BUFFER
IC3006
LA7016
IC301
HA11559NT
To SIGNAL P.W.B.1/4
H.V PROTECT
P.BLK3
+5V
CNR1
AUTO COLOR
FRESH GREEN
TINT
COLOR
OSD.BLK
OSD.B
OSD.G
OSD.R
BRIGHTNESS
CONTRAST
P.BLK2
BLUE BACK
+12V
+9V
SHARPNESS
CNR2/DNR
P.BLK1
H.BLK
V.BLK
RH.RV.BH.BV
33V
A+12
SYNC KILL
To SIGNAL P.W.B.1/4
AVX2
S-SEL
To SIGNAL P.W.B.3/4
S-Y2
S-Y1
COMP VIDEO
S-C1
S-C2
Vcc1
Vcc2
OSC
DETECTOR FIL
SOFT1
PICTURE QUALITY
CONTOUR CORRECTION OUT
CONTOUR CONTROL
SOFT2
SHOOT OUT
DSB
SHOOT BALANCE CONTROL
SOFT CONTROL
CONTOUR CORRECTION IN
BLK LEVEL
R
G
B
TV/TX
R-Y
G-Y
B-Y
-Y
Vcc1
TX.CNT
X ray
GND1
CHROMA OUT
COLOR
VCO
R-Y FIL
G-Y FIL
B-Y FIL
R-Y/OUT
G-Y/OUT
-Y IN
-Y DEF IN
R-Y EDGE FIL
B-Y EDGE FIL
R-Y/IN
G-Y/IN
IC501

cs Important to safety. Before
anual. Don't degrade the safety

## BASIC CIRCUIT DIAGRAM



3
4
5
6
A
B
C
IC504 HD74HC00
IC503 AN5352
IC502 LA7697
IC501
IC301 1559NT
Q3024 2SC3413 H.BLK BUFFER
Q316 2SC3413 CNR SW
Q321 2SC3413 CNR SW
Q507 2SC3413 H.CNR SW
Q508 2SC3413 H.CNR SW
Q505 2SC3413 AUTO COLOR SW
Q3027 2SC3413 CONT BUFFER
Q309 2SC3413
Q310 2SC3413 P.BLK
Q3023 2SA1390 Y.BUFFER
Q311 2SC1741 Y.BUFFER
Q312 2SA854 Y.BUFFER
Q317 2SC3413
Q313 2SC3413 Y-Y BUFFER
Q318
ZD302~305 HZS-5C2
D0041
R0126 100
TO CPT P.W.B.
+12V
GND
+9V
Y
R-Y
G-Y
B-Y
VCC
FILTER
CONTRAST
BLK
YH
CLAMP
R ADJ.
B ADJ.
BRIGHT
Y OUT
Y IN
R TX
R TV
R OUT
G TX
G TV
G OUT
B TX
B TV
B OUT
GND
Ys
CW-CNT
R-Y FIL
G-Y FIL
B-Y FIL
R-Y/OUT
G-Y/OUT
B-Y/OUT
BLK-IN
DEMO-SW
GREEN GAIN-CNT
FLESH GAIN-CNT
-Y IN
-Y DEF IN
R-Y EDGE FIL
B-Y EDGE FIL
R-Y/IN
G-Y/IN
B-Y/IN
Vcc
COLOR LIM
TRACKING
FLESH PHASE ADJ.
C.LIM SW
BLK LEVEL
R
G
B
TV/TX
R-Y
G-Y
B-Y
-Y
Vcc1
TX.CNT
X'ray
GND1
CHROMA OUT
COLOR
VCO
TINT
APC
KILLER
Acc
Vcc1
Vcc2
OSC
DETECTOR FIL
SOFT1
PICTURE QUALITY
CONTOUR CORRECTION OUT
CONTOUR OUT CONTROL
AND CORRECTION OUT
SOFT2
SHOOT OUT
DEB
SHOOT BALANCE CONTROL
SOFT CONTROL
CONTOUR CORRECTION IN
X501
S301
ZD301 HZ4A1
ZD313 HZ12C3
ZD3001 HZS9C2
ZD3002 HZS9C2
ZD3003 HZS9C2
ZD501 HZ9C2
ZD503 HZ9C2
ZD502 HZ9C2
ZD312
L301 100μH
L302 100μH
L303 8.2μH
L3012 100μH
MF301


To SIGNAL P.W.B.1/4
H.V PROTECT
P.BLK3
+5V
CNR1
AUTO COLOR
FRESH GREEN
TINT
COLOR
OSD.BLK
OSD.B
OSD.G
OSD.R
BRIGHTNESS
CONTRAST
P.BLK2
BLUE BACK
+12V
+9V
SHARPNESS
CNR2/CNR
P.BLK1
H.BLK
V.BLK
RH.RV.BH.BV
33V
A+12
SYNC KILL
AVX2
S-SEL
To SIGNAL P.W.B.3/4
S-Y2
S-Y1
COMP VIDEO
S-C1
S-C2
BP SELECT
Q314 2SA1390 Y.BUFFER
Q3024 2SC3413 H.BLK BUFFER
D3003 1SS270
Y-SW IC3005 LVA522S
BUFFER
IC3006 LA7016
Q3016 2SC3413 C.BUFFER
Q3019 2SC3413 C.BUFFER
IC3007 LA7016
Q501 2SC3413 C.BUFFER
Q502 2SC3413 BPF SW
Q503 2SC3413 BPF SW
Q504 2SC3413 BPF SW
IC301 HA11559NT
Q303 2SC3413 YNR BUFFER
Q302 2SC3413 YNR AMP
Q304 2SC3413 YNR SW
Q323 2SA1390 Y.BUFFER
Q324 2SA1390 TEST MIX
Q3027 2SC3413 CONT BUFFER
Q309 2SC3413 ACC
Q310 2SC3413 P.BLK
Q315 2SC3413 SYNC KILL
Q509 2SC3413 TEST SW
Q306 2SA1390 SYNC AMP
Q307 2SA1390 SYNC BUFFER
Q305 2SA1390 Y.BUFFER
Q308 2SC3413 CLAMP
Q316 2SC3413 CNR SW
Q321 2SC3413 CNR SW
Q507 2SC3413 H.CNR SW
Q508 2SC3413 H.CNR SW
Q601 2SA1390 V.SEP
Q602 2SC3413 V.SEP
IC501 HA115
SYNC DET CONVER. GENOFF ON/OFF
To SIGNAL P.W.B.1/4
ON/OFF
H.BLK
V.BLK
TEST
+12
GND
To SP TERMINAL P.W.B.
C
D
E
1
2
3
4
5

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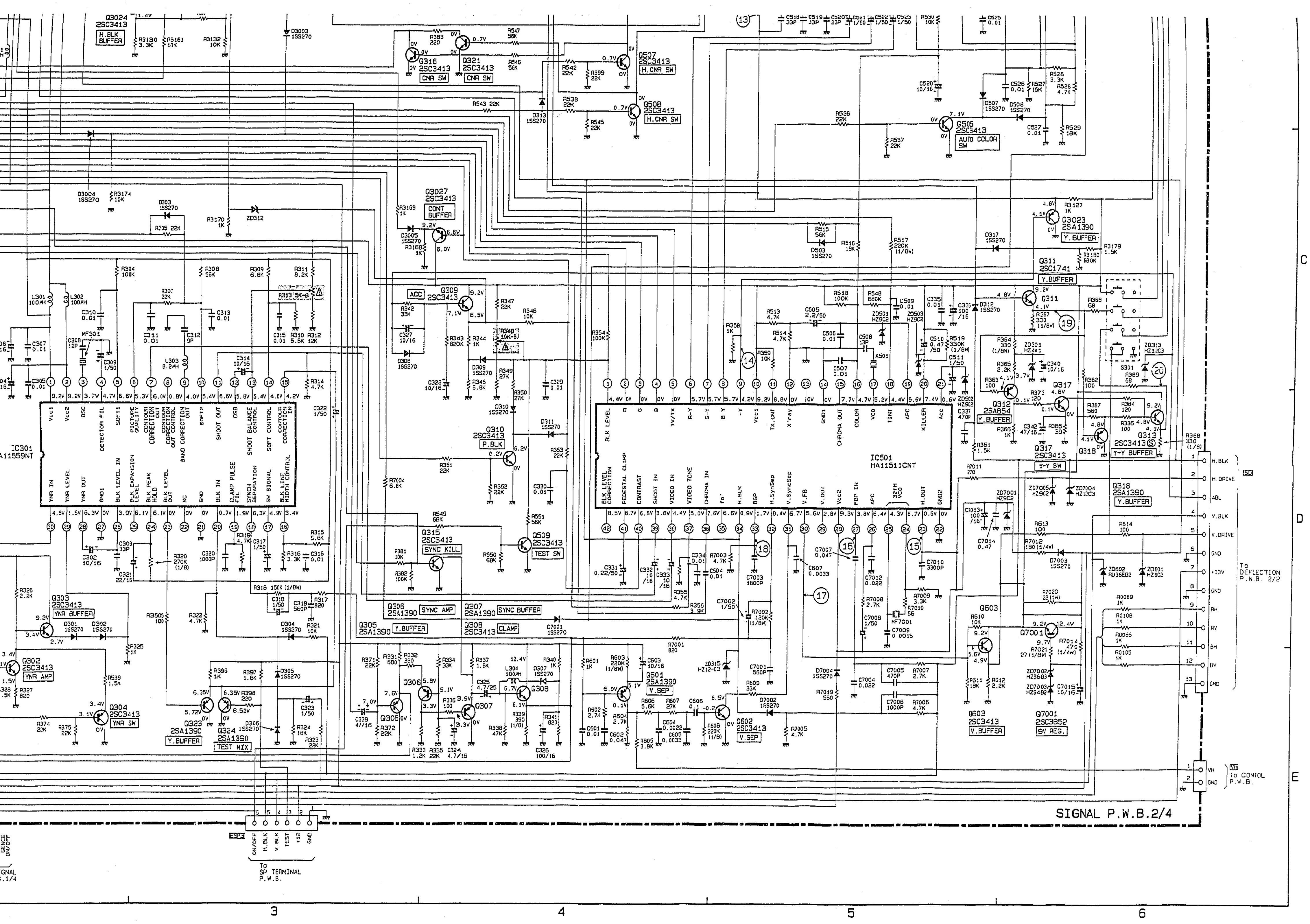
Q3024 2SC3413 H.BLK BUFFER
Q316 2SC3413 CNR SW
Q321 2SC3413 CNR SW
Q507 2SC3413 H.CNR SW
Q508 2SC3413 H.CNR SW
Q505 2SC3413 AUTO COLOR SW
Q3027 2SC3413 CONT BUFFER
Q3023 2SA1390 Y. BUFFER
Q311 2SC1741 Y.BUFFER
Q309 2SC3413
ACC
Q310 2SC3413 P.BLK
Q312 2SA854 Y.BUFFER
Q317 2SC3413 T-Y SW
Q313 2SC3413 T-Y BUFFER
Q318 2SA1390 Y.BUFFER
Q315 2SC3413 SYNC KILL
Q509 2SC3413 TEST SW
Q306 2SA1390 SYNC AMP
Q307 2SA1390 SYNC BUFFER
Q305 2SA1390 Y.BUFFER
Q308 2SC3413 CLAMP
Q303 2SC3413 YNR BUFFER
Q302 2SC3413 YNR AMP
Q304 2SC3413 YNR SW
Q323 2SA1390 Y.BUFFER
Q324 2SA1390 TEST MIX
Q601 2SA1390 V.SEP
Q602 2SC3413 V.SEP
Q603 2SC3413 V.BUFFER
Q7001 2SC3852 9V REG.
IC301 HA11559NT
Vcc1
Vcc2
OSC
DETECTOR FIL
SOFT1
PICTURE QUALITY
CONTOUR CORRECTION OUT
CONTOUR CORRECTION OUT CONTROL
BAND CORRECTION OUT
SOFT2
SHOOT OUT
OSB
SHOOT BALANCE CONTROL
SOFT CONTROL
CONTOUR CORRECTION IN
YNR IN
YNR LEVEL
YNR OUT
GND1
BLK LEVEL IN
BLK EXPANSION LEVEL
BLK PEAK HOLD
BLK LEVEL OUT
NC
BLK IN
CLAMP PULSE FIL
SYNCH SEPARATION
SW SIGNAL
BLK LINE WIDTH CONTROL
IC501 HA11511CNT
BLK LEVEL
R
G
B
TV/TX
R-Y
G-Y
B-Y
-Y
Vcc1
TX.CNT
X'ray
GND1
CHROMA OUT
COLOR
VCO
TINT
APC
KILLER
Acc
BLK LEVEL CORRECTION
PEDESTAL CLAMP
CONTRAST
SHOOT IN
VIDEO IN
VIDEO TONE
CHROMA IN
fo'
H.BLK
BGP
H.SynSep
V.SyncSep
V.FB
V.OUT
Vcc2
FBP IN
AFC
32fH VCO
H.OUT
GND2
H.BLK
H.DRIVE
ABL
V.BLK
V.DRIVE
GND
+33V
GND
RH
RV
BH
BV
GND
To DEFLECTION P.W.B. 2/2
VH
GND
To CONTOL P.W.B.
ON/OFF
H.BLK
V.BLK
TEST
+12
GND
To SP TERMINAL P.W.B.
GENCE ON/OFF
GNAL .1/4
SIGNAL P.W.B.2/4
C
D
E
3
4
5
6

ont.

nal including a standard color bar signal.

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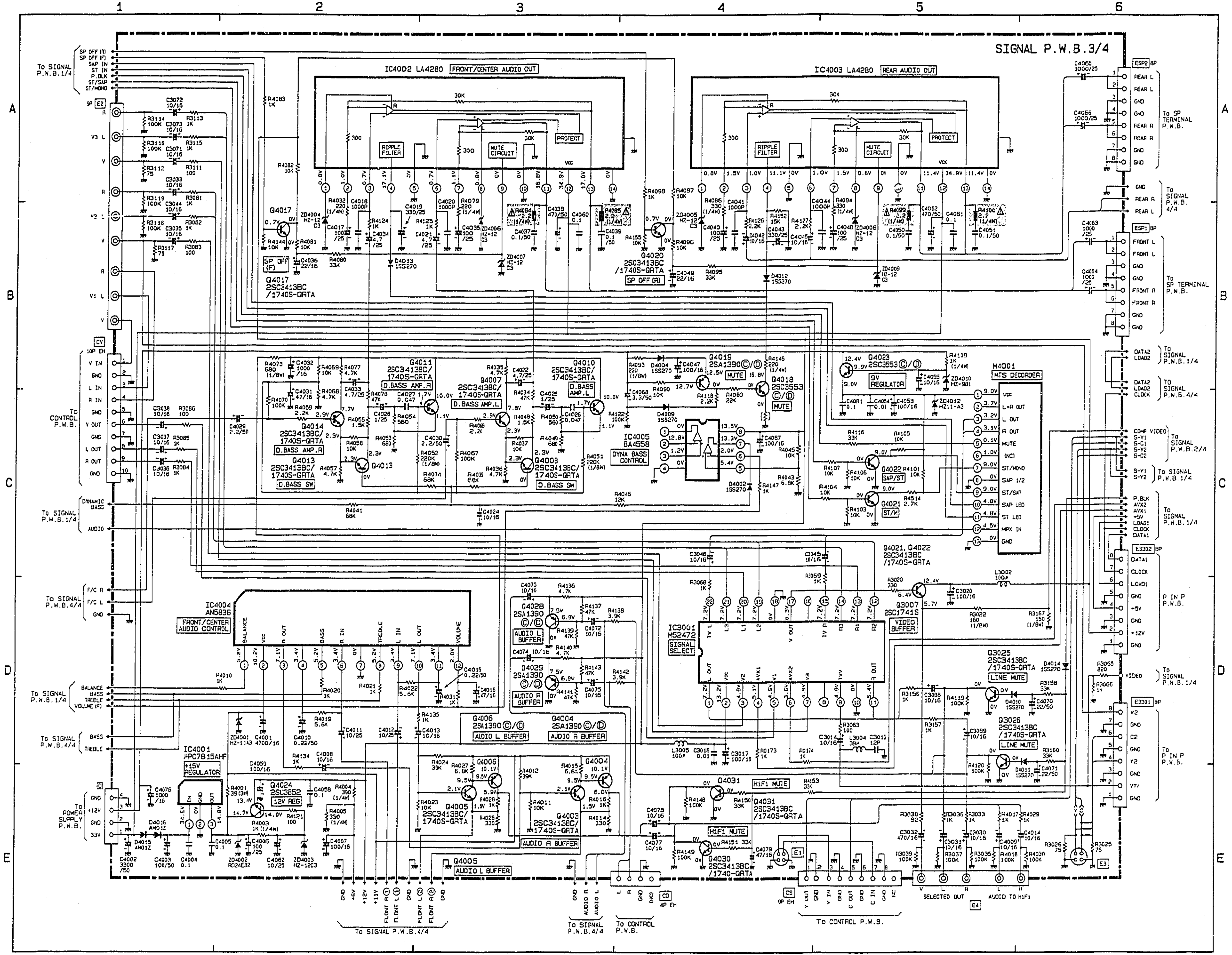
# BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
SIGNAL P.W.B.3/4
IC4002 LA4280 FRONT/CENTER AUDIO OUT
IC4003 LA4280 REAR AUDIO OUT
RIPPLE FILTER
MUTE CIRCUIT
PROTECT
M4001 MTS DECODER
IC4004 AN5836 FRONT/CENTER AUDIO CONTROL
IC4005 BA4558 DYNA BASS CONTROL
IC3001 M52472 SIGNAL SELECT
IC4001 μPC7815AHF +15V REGULATOR
Q4024 2SC3852 12V REG
Q4023 2SC3553 9V REGULATOR
Q4017 2SC3413BC /1740S-GRTA SP OFF (F)
Q4020 2SC3413BC /1740S-GRTA SP OFF (R)
Q4011 2SC3413BC/1740S-GRTA D.BASS AMP.R
Q4007 2SC3413BC/1740S-GRTA D.BASS AMP.L
Q4010 2SC3413BC/1740S-GRTA D.BASS AMP.L
Q4014 2SC3413BC/1740S-GRTA D.BASS AMP.R
Q4013 2SC3413BC/1740S-GRTA D.BASS SW
Q4008 2SC3413BC/1740S-GRTA D.BASS SW
Q4019 2SA1390©/Ⓓ MUTE
Q4018 2SC3553 MUTE
Q4022 SAP/ST
Q4021 ST/P
Q4021, Q4022 2SC3413BC /1740S-GRTA
Q3007 2SC1741S VIDEO BUFFER
Q3025 2SC3413BC /1740S-GRTA LINE MUTE
Q3026 2SC3413BC /1740S-GRTA LINE MUTE
Q4028 2SA1390 ©/Ⓓ AUDIO L BUFFER
Q4029 2SA1390 ©/Ⓓ AUDIO R BUFFER
Q4006 2SA1390©/Ⓓ AUDIO L BUFFER
Q4004 2SA1390©/Ⓓ AUDIO R BUFFER
Q4005 2SC3413BC/1740S-GRTA AUDIO L BUFFER
Q4003 2SC3413BC/1740S-GRTA AUDIO R BUFFER
Q4031 2SC3413BC /1740S-GRTA HiFi MUTE
Q4030 2SC3413BC /1740-GRTA HiFi MUTE
To SIGNAL P.W.B.1/4
To CONTROL P.W.B.
To SIGNAL P.W.B.4/4
To POWER SUPPLY P.W.B.
To SP TERMINAL P.W.B.
To SIGNAL P.W.B.4/4
To SIGNAL P.W.B.2/4
P IN P P.W.B.
To P IN P P.W.B.
SELECTED OUT
AUDIO TO HiFi
To CONTROL P.W.B.
To SIGNAL P.W.B.4/4

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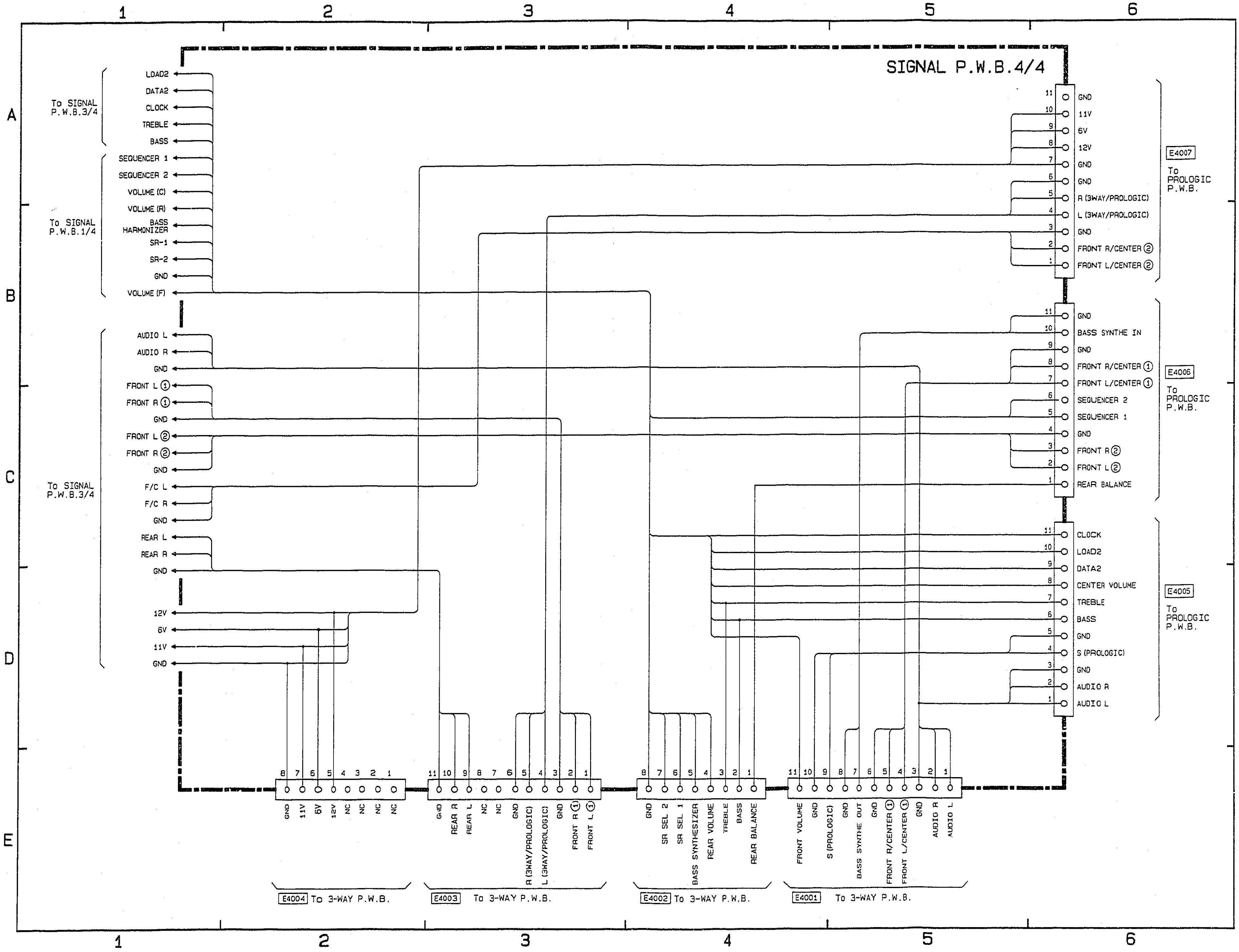
1
2
3
4
5
6
A
B
C
D
E
SIGNAL P.W.B.4/4
To SIGNAL P.W.B.3/4
LOAD2
DATA2
CLOCK
TREBLE
BASS
To SIGNAL P.W.B.1/4
SEQUENCER 1
SEQUENCER 2
VOLUME (C)
VOLUME (R)
BASS HARMONIZER
SR-1
SR-2
GND
VOLUME (F)
To SIGNAL P.W.B.3/4
AUDIO L
AUDIO R
GND
FRONT L ①
FRONT R ①
GND
FRONT L ②
FRONT R ②
GND
F/C L
F/C R
GND
REAR L
REAR R
GND
12V
6V
11V
GND
E4007
To PROLOGIC P.W.B.
11 GND
10 11V
9 6V
8 12V
7 GND
6 GND
5 R (3WAY/PROLOGIC)
4 L (3WAY/PROLOGIC)
3 GND
2 FRONT R/CENTER ②
1 FRONT L/CENTER ②
E4006
To PROLOGIC P.W.B.
11 GND
10 BASS SYNTHE IN
9 GND
8 FRONT R/CENTER ①
7 FRONT L/CENTER ①
6 SEQUENCER 2
5 SEQUENCER 1
4 GND
3 FRONT R ②
2 FRONT L ②
1 REAR BALANCE
E4005
To PROLOGIC P.W.B.
11 CLOCK
10 LOAD2
9 DATA2
8 CENTER VOLUME
7 TREBLE
6 BASS
5 GND
4 S (PROLOGIC)
3 GND
2 AUDIO R
1 AUDIO L
E4004 To 3-WAY P.W.B.
8 GND
7 11V
6 6V
5 12V
4 NC
3 NC
2 NC
1 NC
E4003 To 3-WAY P.W.B.
11 GND
10 REAR R
9 REAR L
8 NC
7 NC
6 GND
5 R (3WAY/PROLOGIC)
4 L (3WAY/PROLOGIC)
3 GND
2 FRONT R ①
1 FRONT L ①
E4002 To 3-WAY P.W.B.
8 GND
7 SR SEL 2
6 SR SEL 1
5 BASS SYNTHESIZER
4 REAR VOLUME
3 TREBLE
2 BASS
1 REAR BALANCE
E4001 To 3-WAY P.W.B.
11 FRONT VOLUME
10 GND
9 S (PROLOGIC)
8 GND
7 BASS SYNTHE OUT
6 GND
5 FRONT R/CENTER ①
4 FRONT L/CENTER ①
3 GND
2 AUDIO R
1 AUDIO L

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# BASIC CIRCUIT DIAGRAM

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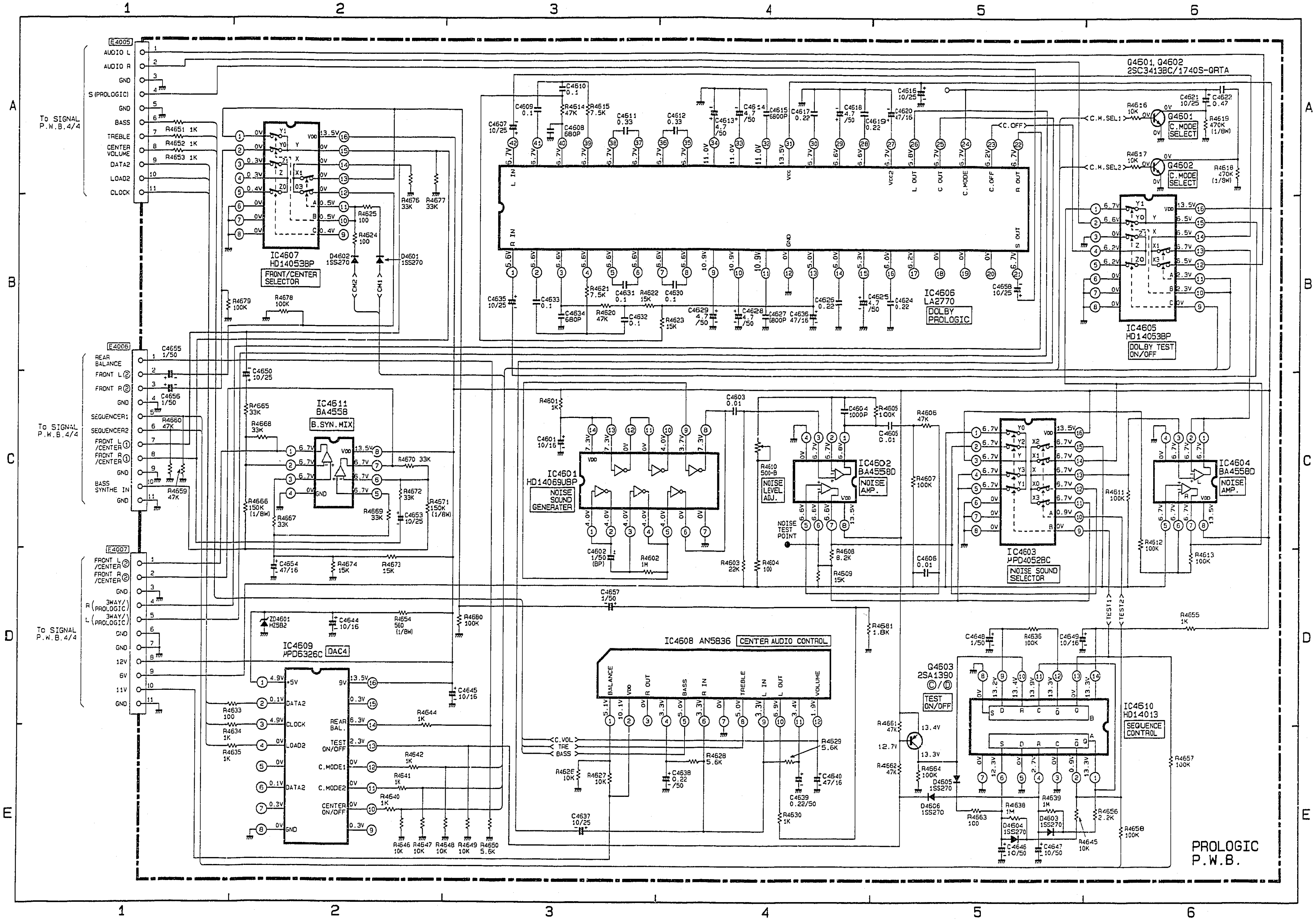
1
2
3
4
5
6
A
B
C
D
E
E4005
AUDIO L
AUDIO R
GND
S(PROLOGIC)
BASS
TREBLE
CENTER VOLUME
DATA2
LOAD2
CLOCK
To SIGNAL P.W.B.4/4
R4651 1K
R4652 1K
R4653 1K
IC4607
HD14053BP
FRONT/CENTER SELECTOR
D4602 1SS270
D4601 1SS270
R4676 33K
R4677 33K
R4678 100K
R4679 100K
IC4606
LA2770
DOLBY PROLOGIC
L IN
R IN
L OUT
C OUT
C.MODE
C.OFF
R OUT
S OUT
VCC
GND
Q4601, Q4602
2SC3413BC/1740S-QRTA
Q4601
C.MODE SELECT
Q4602
C.MODE SELECT
C.M.SEL1
C.M.SEL2
R4616 10K
R4617 10K
R4618 470K (1/8W)
R4619 470K (1/8W)
IC4605
HD14053BP
DOLBY TEST ON/OFF
E4006
REAR BALANCE
FRONT L②
FRONT R②
GND
SEQUENCER1
SEQUENCER2
FRONT L /CENTER①
FRONT R /CENTER①
BASS SYNTHE IN
IC4611
BA4558
B.SYN.MIX
IC4601
HD14069UBP
NOISE SOUND GENERATER
IC4602
BA4558D
NOISE AMP.
NOISE LEVEL ADJ.
NOISE TEST POINT
IC4603
μPD4052BC
NOISE SOUND SELECTOR
IC4604
BA4558D
NOISE AMP.
E4007
FRONT L /CENTER②
FRONT R /CENTER②
R (3WAY/ PROLOGIC)
L (3WAY/ PROLOGIC)
12V
6V
11V
ZD4601 HZ5B2
IC4609
μPD6326C
DAC4
+5V
DATA2
CLOCK
LOAD2
REAR BAL.
TEST ON/OFF
C.MODE1
C.MODE2
CENTER ON/OFF
IC4608 AN5836
CENTER AUDIO CONTROL
BALANCE
R OUT
BASS
R IN
TREBLE
L IN
L OUT
VOLUME
C.VOL
TRE
BASS
Q4603
2SA1390
C/D
TEST ON/OFF
TEST1
TEST2
IC4610
HD14013
SEQUENCE CONTROL
D4604 1SS270
D4603 1SS270
D4605 1SS270
D4606 1SS270
PROLOGIC P.W.B.

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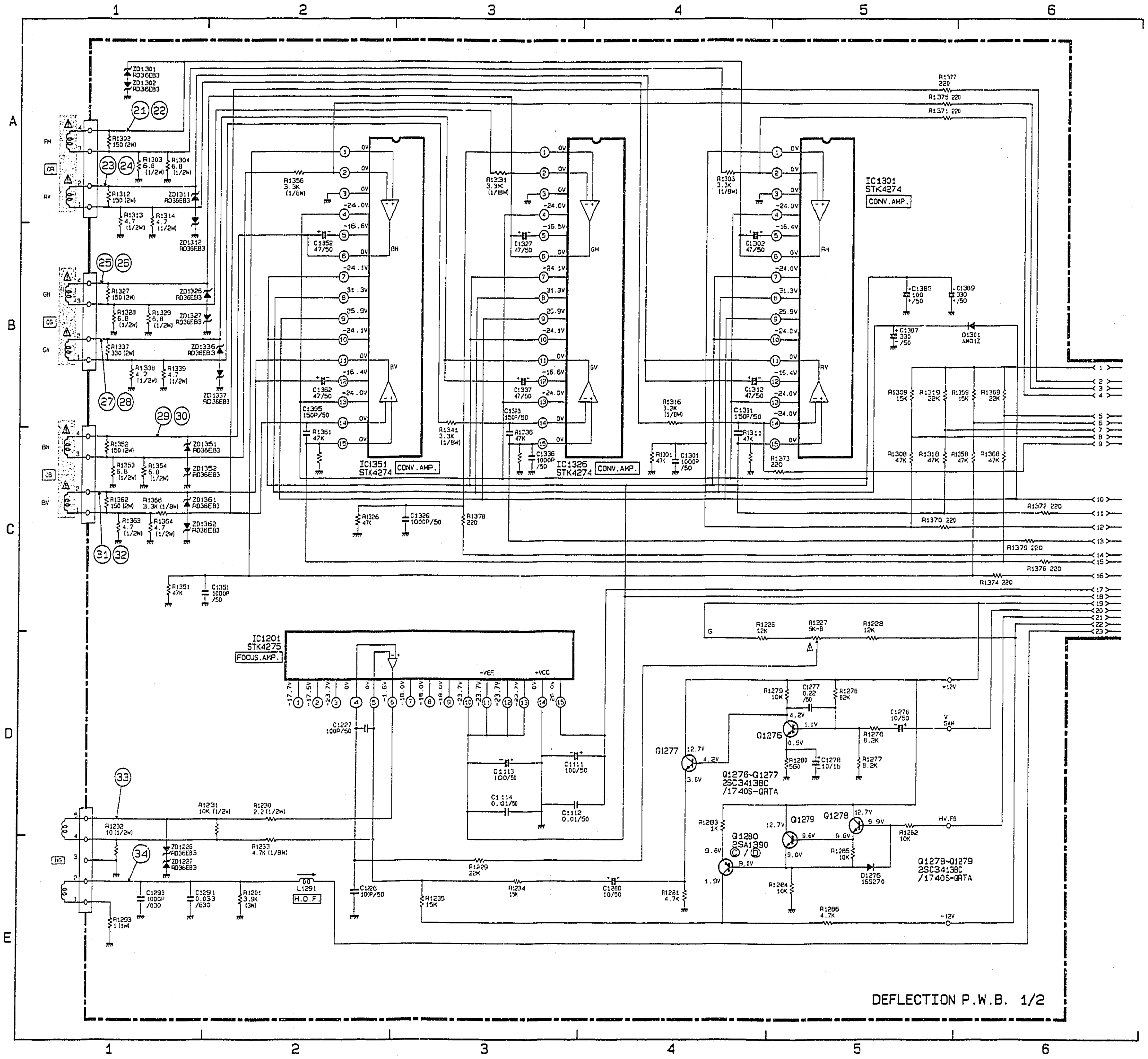
1
2
3
4
5
6
A
B
C
D
E
IC1351
STK4274
CONV.AMP.
IC1326
STK4274
CONV.AMP.
IC1301
STK4274
CONV.AMP.
IC1201
STK4275
FOCUS.AMP.
ZD1301
RD36EB3
ZD1302
RD36EB3
R1302
150 (2W)
R1303
6.8
R1304
6.8
R1312
150 (2W)
ZD1311
ZD1312
R1313
4.7
R1314
4.7
R1327
150 (2W)
ZD1326
ZD1327
R1328
6.8
R1329
6.8
R1337
330 (2W)
ZD1336
ZD1337
R1338
4.7
R1339
4.7
R1352
150 (2W)
ZD1351
ZD1352
R1353
6.8
R1354
6.8
R1362
150 (2W)
R1366
3.3K (1/8W)
ZD1361
ZD1362
R1363
4.7
R1364
4.7
RH
RV
GH
GV
BH
BV
CR
CG
CB
R1356
3.3K
(1/8W)
C1352
47/50
C1362
47/50
C1395
150P/50
R1361
47K
R1331
3.3K
(1/8W)
C1327
47/50
C1337
47/50
C1393
150P/50
R1336
47K
C1338
1000P
/50
R1341
3.3K
(1/8W)
R1303
3.3K
(1/8W)
C1302
47/50
C1312
47/50
C1391
150P/50
R1311
47K
R1316
3.3K
(1/8W)
R1301
47K
C1301
1000P
/50
R1373
220
R1377
220
R1375 220
R1371 220
C1388
100
/50
C1389
330
/50
C1387
330
/50
D1301
AM01Z
R1309
15K
R1319
22K
R1359
15K
R1369
22K
R1308
47K
R1318
47K
R1358
47K
R1368
47K
R1372 220
R1370 220
R1379 220
R1376 220
R1374 220
R1326
47K
C1326
1000P/50
R1378
220
R1351
47K
C1351
1000P
/50
0V
-24.0V
-16.6V
-24.1V
31.3V
25.9V
-16.4V
-15.6V
C1227
100P/50
+VEE
+VCC
C1113
100/50
C1111
100/50
C1114
0.01/50
C1112
0.01/50
G
R1226
12K
R1227
5K-B
R1228
12K
R1279
10K
C1277
0.22
/50
R1278
82K
C1276
10/50
V
SAW
+12V
Q1276
R1276
8.2K
Q1277
R1280
560
C1278
10/16
R1277
8.2K
Q1276~Q1277
2SC3413BC
/1740S-GRTA
Q1279
Q1278
R1283
1K
Q1280
2SA1390
R1282
10K
HV.FB
R1285
10K
D1276
1SS270
Q1278~Q1279
2SC3413BC
/1740S-GRTA
R1284
10K
R1286
4.7K
-12V
R1281
4.7K
C1280
10/50
R1234
15K
R1229
22K
R1235
15K
C1226
100P/50
R1231
10K (1/2W)
R1230
2.2 (1/2W)
R1232
10 (1/2W)
ZD1226
RD36EB3
ZD1227
RD36EB3
R1233
4.7K (1/8W)
HG
C1293
1000P
/630
C1291
0.033
/630
R1201
3.9K
(3W)
L1291
H.D.F.
R1293
1 (1W)
DEFLECTION P.W.B. 1/2

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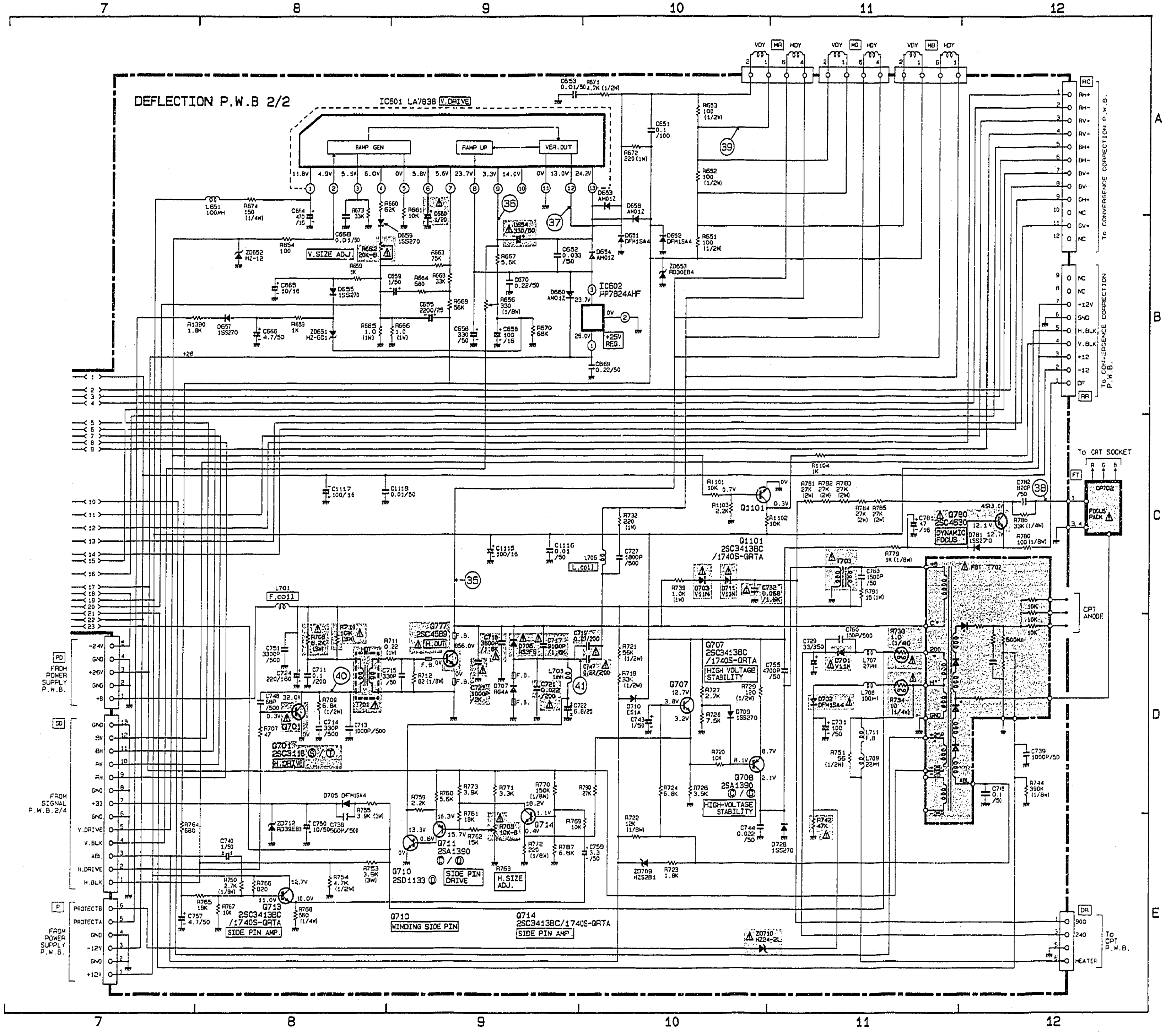
7
8
9
10
11
12
A
B
C
D
E
DEFLECTION P.W.B 2/2
IC601 LA7838 V.DRIVE
RAMP GEN
RAMP UP
VER.OUT
V.SIZE ADJ.
IC602 HP7824AHF
+25V REG.
VDY MR HDY
VDY MG HDY
VDY MB HDY
RC
To CONVERGENCE CORRECTION P.W.B.
To CONVERGENCE CORRECTION P.W.B.
RA
To CRT SOCKET
FT
FOCUS PACK
CP702
CPT ANODE
FBT T702
Q1101 2SC3413BC /1740S-QRTA
Q780 2SC4630 DYNAMIC FOCUS
L701 F.coil
L705 L.coil
Q777 2SC4589 H.OUT
Q701 2SC3116 Ⓢ/Ⓣ H.DRIVE
Q707 2SC3413BC /1740S-QRTA HIGH VOLTAGE STABILITY
Q708 2SA1390 Ⓒ/Ⓓ HIGH-VOLTAGE STABILITY
Q710 2SD1133 Ⓓ WINDING SIDE PIN
Q711 2SA1390 Ⓒ/Ⓓ SIDE PIN DRIVE
Q713 2SC3413BC /1740S-QRTA SIDE PIN AMP.
Q714 2SC3413BC/1740S-QRTA SIDE PIN AMP.
H.SIZE ADJ.
PD FROM POWER SUPPLY P.W.B.
SD FROM SIGNAL P.W.B.2/4
P FROM POWER SUPPLY P.W.B.
DR To CPT P.W.B.
HEATER

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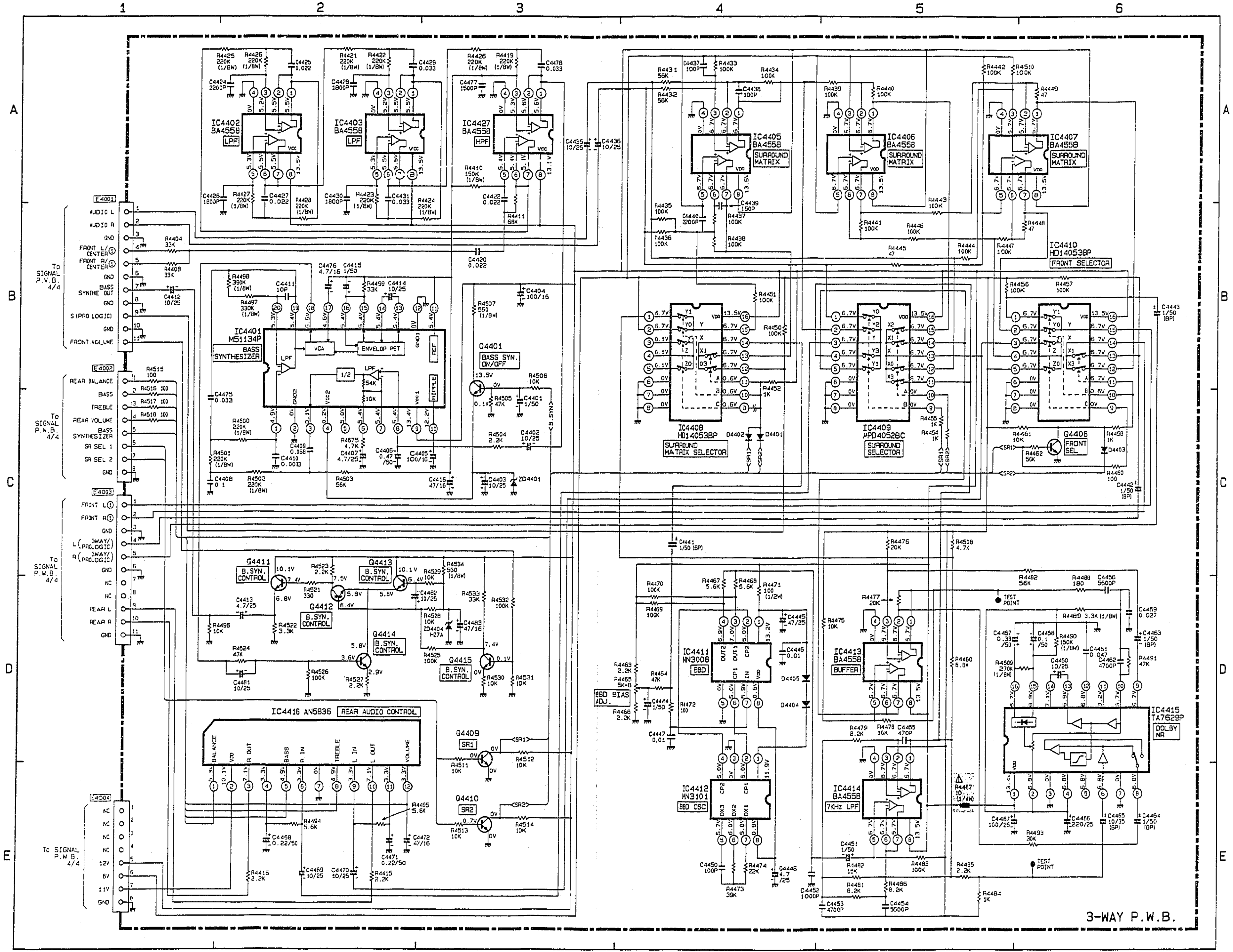
IC4402 BA4558 LPF
IC4403 BA4558 LPF
IC4427 BA4558 HPF
IC4405 BA4558 SURROUND MATRIX
IC4406 BA4558 SURROUND MATRIX
IC4407 BA4558 SURROUND MATRIX
IC4401 M51134P BASS SYNTHESIZER
Q4401 BASS SYN. ON/OFF
IC4408 HD14053BP SURROUND MATRIX SELECTOR
IC4409 HPD4052BC SURROUND SELECTOR
IC4410 HD14053BP FRONT SELECTOR
Q4408 FRONT SEL
Q4411 B.SYN. CONTROL
Q4412 B.SYN. CONTROL
Q4413 B.SYN. CONTROL
Q4414 B.SYN. CONTROL
Q4415 B.SYN. CONTROL
IC4416 AN5836 REAR AUDIO CONTROL
Q4409 SR1
Q4410 SR2
IC4411 MN3008 BBD
IC4412 MN3101 BBD OSC
BBD BIAS ADJ.
IC4413 BA4558 BUFFER
IC4414 BA4558 7KHz LPF
IC4415 TA7629P DOLBY NR
TEST POINT
F4001
F4002
F4003
F4004
To SIGNAL P.W.B. 4/4
AUDIO L
AUDIO R
GND
FRONT L/CENTER
FRONT R/CENTER
BASS SYNTHE OUT
S(PRO LOGIC)
FRONT VOLUME
REAR BALANCE
BASS
TREBLE
REAR VOLUME
BASS SYNTHESIZER
SR SEL 1
SR SEL 2
FRONT L
FRONT R
L (3WAY/PROLOGIC)
R (3WAY/PROLOGIC)
NC
REAR L
REAR R
12V
9V
11V
3-WAY P.W.B.
1
2
3
4
5
6
A
B
C
D
E

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## BASIC CIRCUIT DIAGRAM

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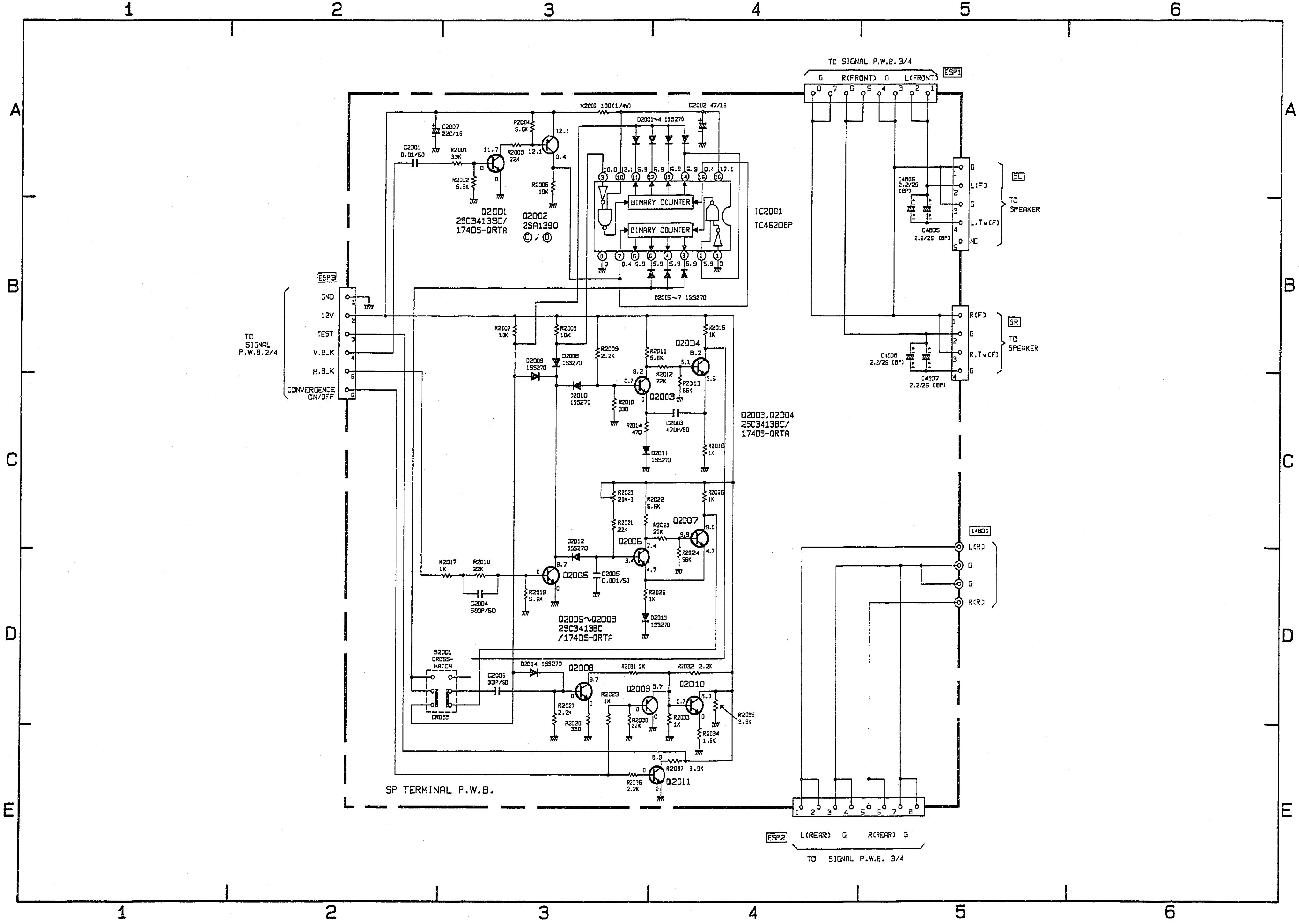
1
2
3
4
5
6
A
B
C
D
E
TO SIGNAL P.W.B. 3/4
G R(FRONT) G L(FRONT)
ESP1
R2006 100(1/4W)
C2002 47/16
C2007 220/16
R2004 5.6K
D2001~4 1SS270
C2001 0.01/50
R2001 33K
R2003 22K
R2002 5.6K
R2005 10K
Q2001 2SC3413BC/ 1740S-ORTA
Q2002 2SA1390 Ⓒ/Ⓓ
BINARY COUNTER
BINARY COUNTER
IC2001 TC4520BP
D2005~7 1SS270
ESP3
GND
12V
TEST
V.BLK
H.BLK
CONVERGENCE ON/OFF
TO SIGNAL P.W.B.2/4
R2007 10K
R2008 10K
D2009 1SS270
D2008 1SS270
R2009 2.2K
D2010 1SS270
R2010 330
R2011 5.6K
R2012 22K
R2013 56K
Q2003
Q2004
R2015 1K
R2014 470
C2003 470P/50
D2011 1SS270
R2016 1K
Q2003, Q2004 2SC3413BC/ 1740S-ORTA
R2020 20K-B
R2022 5.6K
R2021 22K
R2023 22K
Q2007
Q2006
R2024 56K
R2026 1K
D2012 1SS270
R2017 1K
R2018 22K
C2004 680P/50
Q2005
R2019 5.6K
C2005 0.001/50
R2025 1K
D2013 1SS270
Q2005~Q2008 2SC3413BC /1740S-ORTA
S2001 CROSS-HATCH
CROSS
C2006 33P/50
D2014 1SS270
Q2008
R2027 2.2K
R2028 330
R2029 1K
Q2009
R2030 22K
R2031 1K
R2032 2.2K
Q2010
R2033 1K
R2034 1.6K
R2035 3.9K
R2037 3.9K
R2036 2.2K
Q2011
SP TERMINAL P.W.B.
C4806 2.2/25 (BP)
C4805 2.2/25 (BP)
G
L(F)
G
L.Tw(F)
NC
SL
TO SPEAKER
R(F)
G
R.Tw(F)
G
SR
TO SPEAKER
C4808 2.2/25 (BP)
C4807 2.2/25 (BP)
E4801
L(R)
G
G
R(R)
ESP2
L(REAR) G R(REAR) G
TO SIGNAL P.W.B. 3/4

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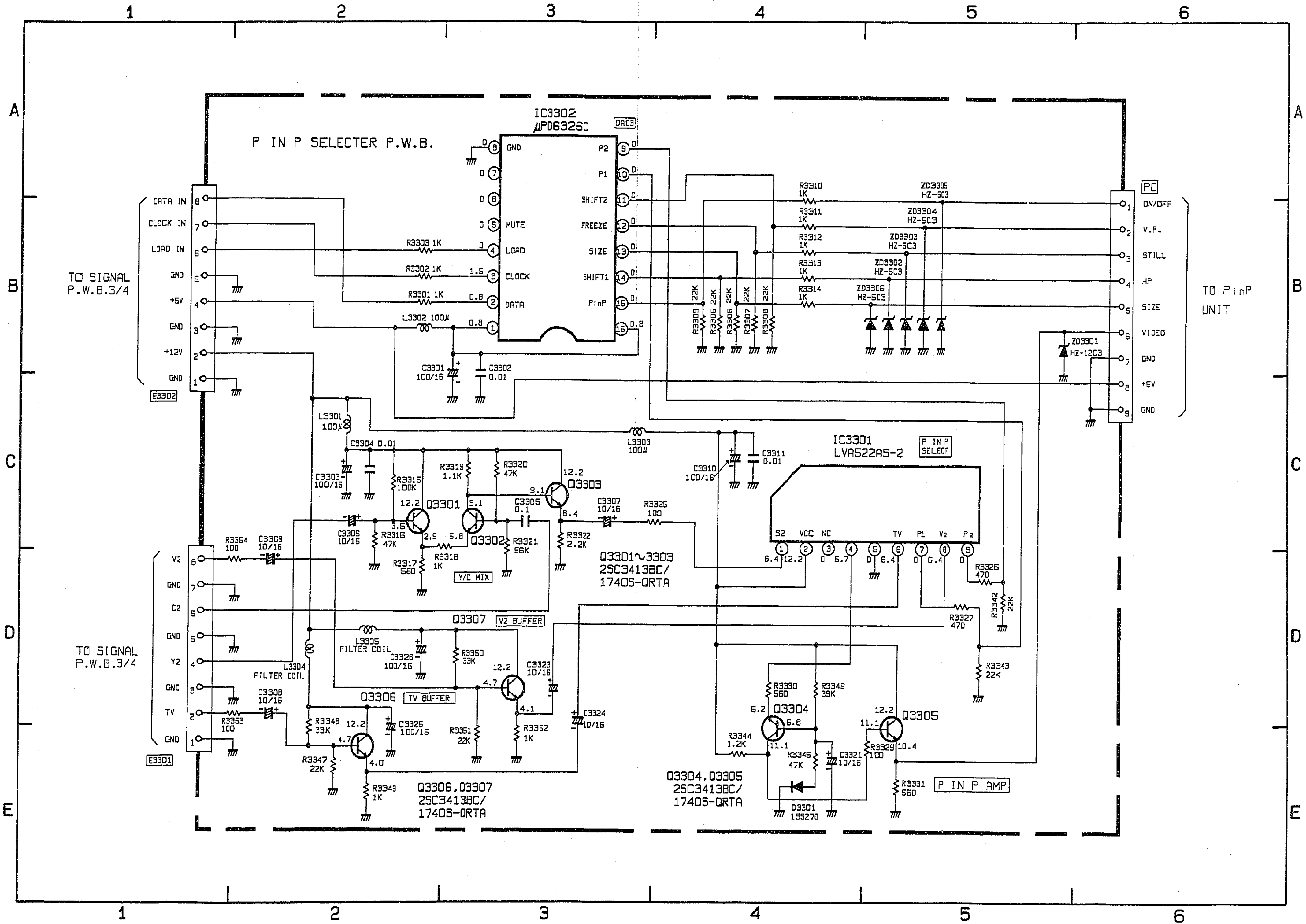
1
2
3
4
5
6
A
B
C
D
E
P IN P SELECTER P.W.B.
IC3302
μPD6326C
DAC3
GND
MUTE
LOAD
CLOCK
DATA
P2
P1
SHIFT2
FREEZE
SIZE
SHIFT1
PinP
R3303 1K
R3302 1K
R3301 1K
L3302 100μ
C3301 100/16
C3302 0.01
TO SIGNAL P.W.B.3/4
DATA IN
CLOCK IN
LOAD IN
GND
+5V
GND
+12V
GND
E3302
R3310 1K
R3311 1K
R3312 1K
R3313 1K
R3314 1K
ZD3305 HZ-5C3
ZD3304 HZ-5C3
ZD3303 HZ-5C3
ZD3302 HZ-5C3
ZD3306 HZ-5C3
R3309 22K
R3306 22K
R3305 22K
R3307 22K
R3308 22K
ZD3301 HZ-12C3
PC
ON/OFF
V.P.
STILL
HP
SIZE
VIDEO
GND
+5V
GND
TO PinP UNIT
L3301 100μ
C3304 0.01
C3303 100/16
R3315 100K
R3319 1.1K
R3320 47K
Q3301
Q3302
Q3303
C3305 0.1
C3306 10/16
R3316 47K
R3317 560
R3318 1K
R3321 56K
R3322 2.2K
Y/C MIX
C3307 10/16
R3326 100
L3303 100μ
C3310 100/16
C3311 0.01
Q3301~3303 2SC3413BC/ 1740S-QRTA
IC3301
LVA522AS-2
P IN P SELECT
S2
VCC
NC
TV
P1
V2
P2
R3326 470
R3342 22K
R3327 470
R3343 22K
V2
GND
C2
GND
Y2
GND
TV
GND
E3301
R3354 100
C3309 10/16
R3353 100
C3308 10/16
L3304 FILTER COIL
L3305 FILTER COIL
C3326 100/16
Q3307
V2 BUFFER
R3350 33K
C3323 10/16
Q3306
TV BUFFER
R3348 33K
C3325 100/16
R3351 22K
R3352 1K
C3324 10/16
R3347 22K
R3349 1K
Q3306,Q3307 2SC3413BC/ 1740S-QRTA
R3330 560
R3346 39K
Q3304
R3344 1.2K
R3345 47K
C3321 10/16
D3301 1S5270
Q3305
R3329 100
R3331 560
P IN P AMP
Q3304,Q3305 2SC3413BC/ 1740S-QRTA

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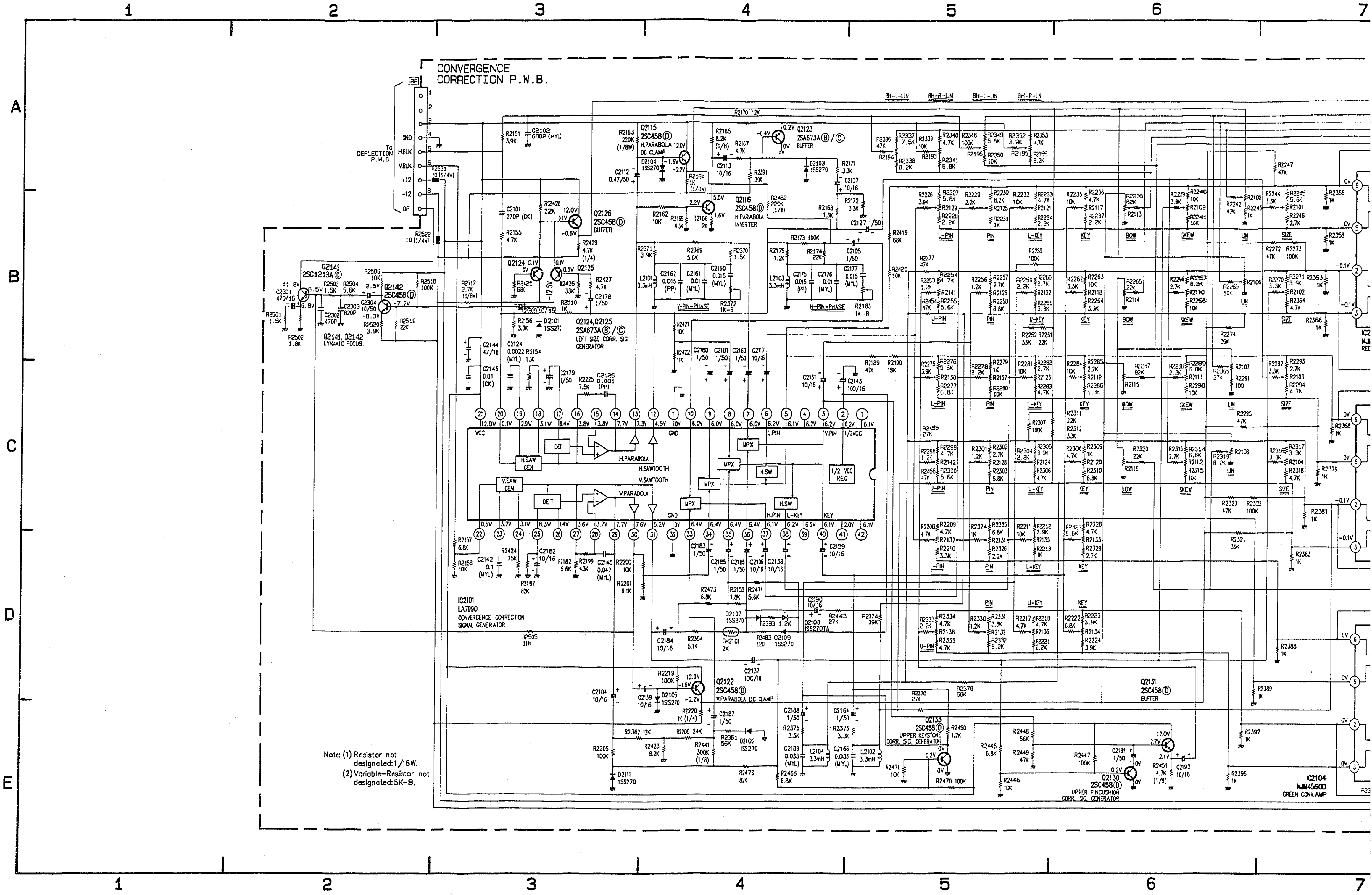
## BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
7
A
B
C
D
E
CONVERGENCE CORRECTION P.W.B.
To DEFLECTION P.W.B.
GND
H.BLK
V.BLK
+12
-12
DF
Q2141 2SC1213A Ⓒ
Q2142 2SC458 Ⓓ
Q2141, Q2142 DYNAMIC FOCUS
Q2115 2SC458 Ⓓ H.PARABOLA DC CLAMP
Q2123 2SA673A Ⓑ/Ⓒ BUFFER
Q2116 2SC458 Ⓓ H.PARABOLA INVERTER
Q2126 2SC458 Ⓓ BUFFER
Q2124, Q2125 2SA673A Ⓑ/Ⓒ LEFT SIZE CORR. SIG. GENERATOR
V-PIN-PHASE
H-PIN-PHASE
RH-L-LIN
RH-R-LIN
BH-L-LIN
BH-R-LIN
L-PIN
PIN
L-KEY
KEY
BOW
SKEW
LIN
SIZE
U-PIN
U-KEY
VCC
H.SAW GEN
V.SAW GEN
DET
H.PARABOLA
V.PARABOLA
H.SAWTOOTH
V.SAWTOOTH
MPX
H.SW
1/2 VCC REG
V.PIN
H.PIN
IC2101 LA7990 CONVERGENCE CORRECTION SIGNAL GENERATOR
Q2122 2SC458 Ⓓ V.PARABOLA DC CLAMP
Q2133 2SC458 Ⓓ UPPER KEYSTONE CORR. SIG. GENERATOR
Q2130 2SC458 Ⓓ UPPER PINCUSHION CORR. SIG. GENERATOR
Q2131 2SC458 Ⓓ BUFFER
IC2104 NJM4560D GREEN CONV.AMP
TH2101 2K

Note: (1) Resistor not designated:1/16W.
(2) Variable-Resistor not designated:5K-B.

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# BASIC CIRCUIT DIAGRAM

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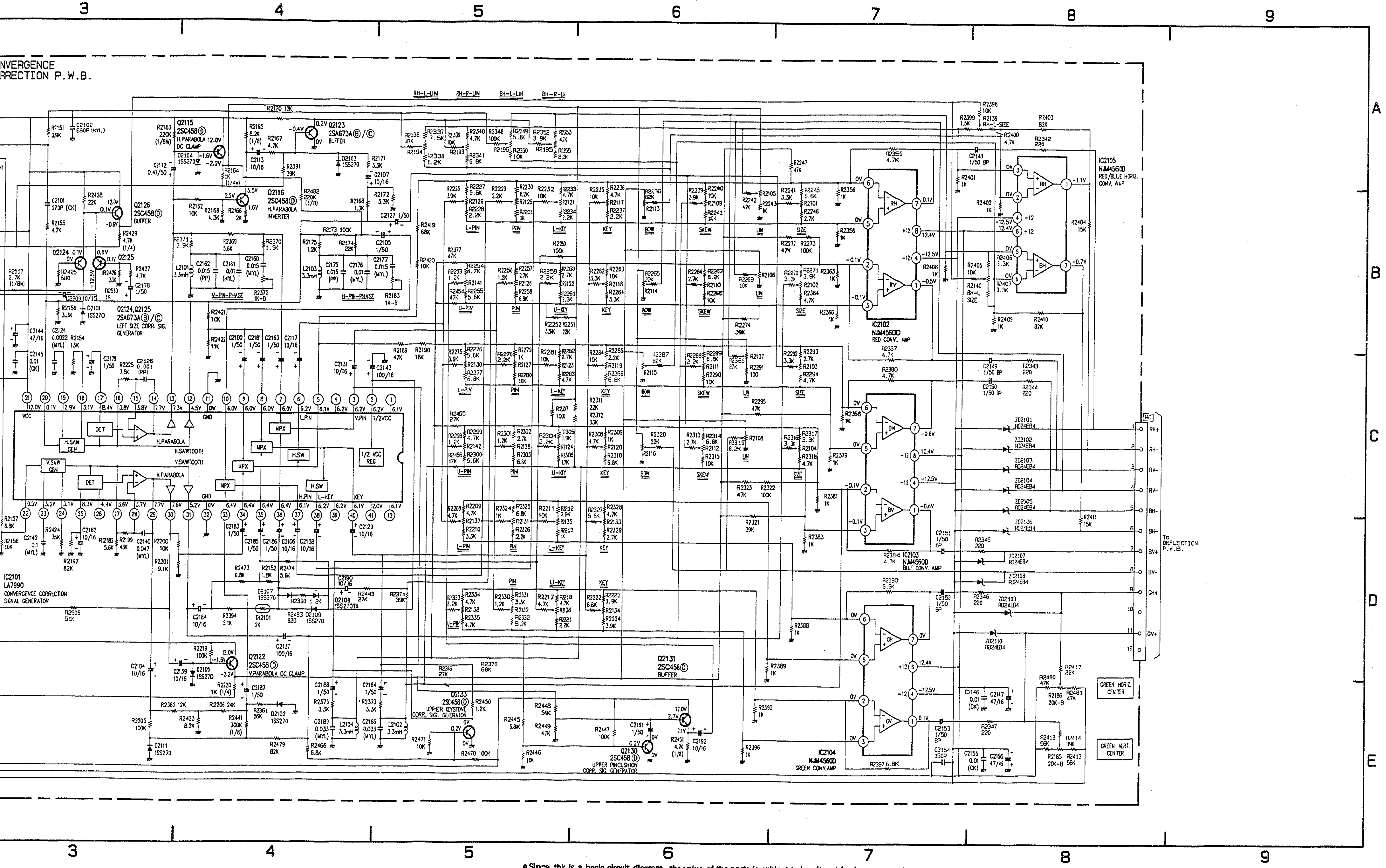
3
4
5
6
7
8
9
A
B
C
D
E
NVERGENCE
RRECTION P.W.B.
RH-L-LIN
RH-R-LIN
BH-L-LIN
BH-R-LIN
Q2115 2SC458Ⓓ H.PARABOLA DC CLAMP
Q2123 2SA673A(B)/(C) BUFFER
Q2116 2SC458Ⓓ H.PARABOLA INVERTER
Q2126 2SC458Ⓓ BUFFER
Q2124,Q2125 2SA673A(B)/(C) LEFT SIZE CORR. SIG. GENERATOR
V-PIN-PHASE
H-PIN-PHASE
L-PIN
PIN
L-KEY
KEY
BOW
SKEW
LIN
SIZE
U-PIN
U-KEY
VCC
GND
H.SAW GEN
V.SAW GEN
DET
H.PARABOLA
H.SAWTOOTH
V.SAWTOOTH
V.PARABOLA
MPX
H.SW
1/2 VCC REG
IC2101 LA7990 CONVERGENCE CORRECTION SIGNAL GENERATOR
IC2102 NJM4560D RED CONV. AMP
IC2103 NJM4560D BLUE CONV. AMP
IC2104 NJM4560D GREEN CONV.AMP
IC2105 NJM4560D RED/BLUE HORIZ. CONV. AMP
Q2122 2SC458Ⓓ V.PARABOLA DC CLAMP
Q2133 2SC458Ⓓ UPPER KEYSTONE CORR. SIG. GENERATOR
Q2130 2SC458Ⓓ UPPER PINCUSHION CORR. SIG. GENERATOR
Q2131 2SC458Ⓓ BUFFER
GREEN HORIZ. CENTER
GREEN VERT. CENTER
RH+
RH-
RV+
RV-
BH+
BH-
BV+
BV-
GH+
GV+
To DEFLECTION P.W.B.

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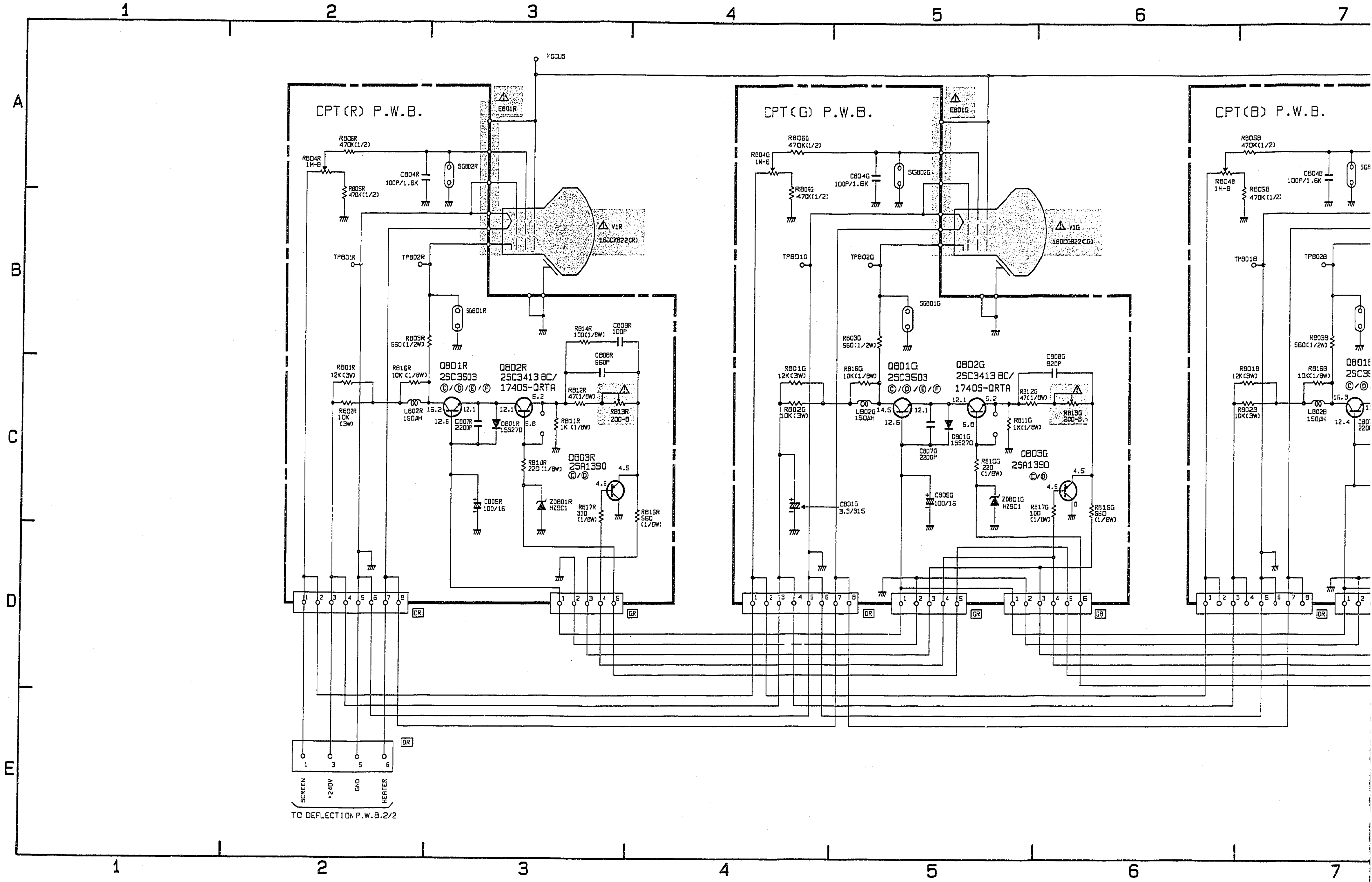
## BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
7
A
B
C
D
E
FOCUS
CPT(R) P.W.B.
E801R
R806R 470K(1/2)
R804R 1M-B
R805R 470K(1/2)
C804R 100P/1.6K
SG802R
V1R 160CZ822(R)
TP801R
TP802R
SG801R
R803R 560(1/2W)
R814R 100(1/8W)
C809R 100P
C808R 560P
R801R 12K(3W)
R816R 10K(1/8W)
Q801R 2SC3503 ©/Ⓓ/Ⓔ/Ⓕ
Q802R 2SC3413 BC/ 1740S-QRTA
R812R 47(1/8W)
R813R 200-B
R802R 10K (3W)
L802R 150μH
C807R 2200P
D801R 1SS270
R811R 1K (1/8W)
R810R 220 (1/8W)
Q803R 2SA1390 ©/Ⓓ
C805R 100/16
ZD801R HZ9C1
R817R 330 (1/8W)
R815R 560 (1/8W)
16.2
12.6
12.1
5.2
5.8
4.6
4.5
DR
GR
CPT(G) P.W.B.
E801G
R806G 470K(1/2)
R804G 1M-B
R805G 470K(1/2)
C804G 100P/1.6K
SG802G
V1G 180CG822(G)
TP801G
TP802G
SG801G
R803G 560(1/2W)
R801G 12K(3W)
R816G 10K(1/8W)
Q801G 2SC3503 ©/Ⓓ/Ⓔ/Ⓕ
Q802G 2SC3413 BC/ 1740S-QRTA
C808G 820P
R812G 47(1/8W)
R813G 200-B
R802G 10K(3W)
L802G 150μH
14.5
12.6
12.1
5.2
5.8
D801G 1SS270
C807G 2200P
R811G 1K(1/8W)
R810G 220 (1/8W)
Q803G 2SA1390 ©/Ⓓ
C801G 3.3/315
C805G 100/16
ZD801G HZ9C1
R817G 100 (1/8W)
R815G 560 (1/8W)
4.5
GB
CPT(B) P.W.B.
R806B 470K(1/2)
R804B 1M-B
R805B 470K(1/2)
C804B 100P/1.6K
TP801B
TP802B
R803B 560(1/2W)
R801B 12K(3W)
R816B 10K(1/8W)
R802B 10K(3W)
L802B 150μH
15.3
12.4
SCREEN
+240V
GND
HEATER
TO DEFLECTION P.W.B.2/2

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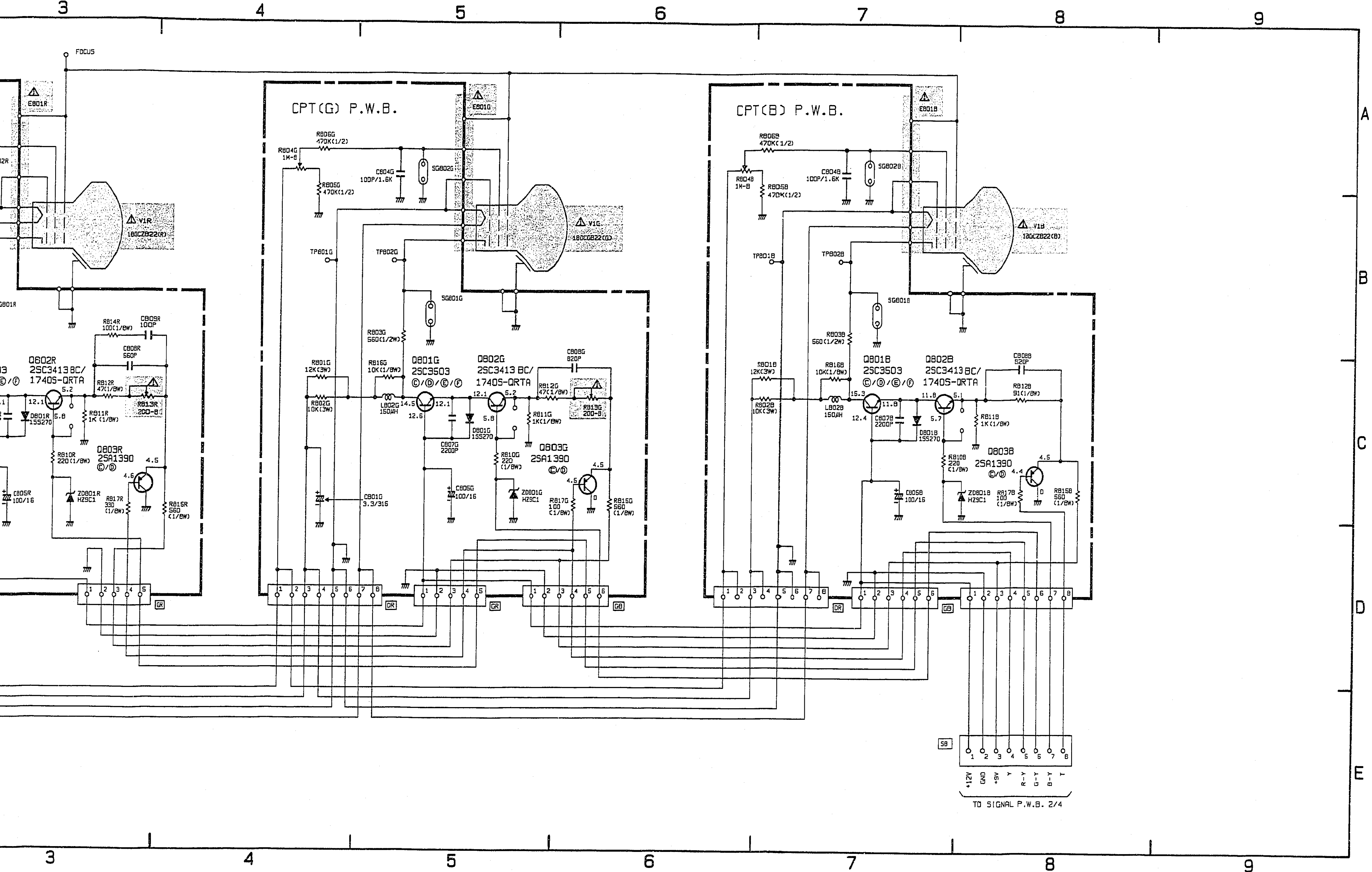
3
4
5
6
7
8
9
A
B
C
D
E
FOCUS
E801R
V1R
180CZB22(R)
G801R
Q602R
2SC3413 BC/
1740S-QRTA
Ⓔ/Ⓕ
12.1
5.2
5.8
D801R
1SS270
R814R
100(1/8W)
C809R
100P
C808R
560P
R812R
47(1/8W)
R813R
200-B
R811R
1K (1/8W)
Q803R
2SA1390
Ⓒ/Ⓓ
4.6
4.5
R810R
220(1/8W)
C805R
100/16
ZD801R
HZ9C1
R817R
330
(1/8W)
R815R
560
(1/8W)
GR
CPT(G) P.W.B.
E801G
R806G
470K(1/2)
R804G
1M-B
R805G
470K(1/2)
C804G
100P/1.6K
SG802G
V1G
180CGB22(G)
TP801G
TP802G
SG801G
R803G
560(1/2W)
R801G
12K(3W)
R802G
10K(3W)
R816G
10K(1/8W)
L802G
150μH
Q801G
2SC3503
Ⓒ/Ⓓ/Ⓔ/Ⓕ
14.5
12.6
12.1
Q802G
2SC3413 BC/
1740S-QRTA
12.1
5.2
5.8
C807G
2200P
D801G
1SS270
C808G
820P
R812G
47(1/8W)
R813G
200-B
R811G
1K(1/8W)
Q803G
2SA1390
Ⓒ/Ⓓ
4.5
4.5
0
R810G
220
(1/8W)
ZD801G
HZ9C1
R817G
100
(1/8W)
R815G
560
(1/8W)
C801G
3.3/315
C805G
100/16
DR
GR
GB
CPT(B) P.W.B.
E801B
R806B
470K(1/2)
R804B
1M-B
R805B
470K(1/2)
C804B
100P/1.6K
SG802B
V1B
180CZB22(B)
TP801B
TP802B
SG801B
R803B
560(1/2W)
R801B
12K(3W)
R802B
10K(3W)
R816B
10K(1/8W)
L802B
150μH
Q801B
2SC3503
Ⓒ/Ⓓ/Ⓔ/Ⓕ
15.3
12.4
11.8
Q802B
2SC3413 BC/
1740S-QRTA
11.8
5.1
5.7
C807B
2200P
D801B
1SS270
C808B
820P
R812B
91(1/8W)
R811B
1K(1/8W)
Q803B
2SA1390
Ⓒ/Ⓓ
4.5
4.4
0
R810B
220
(1/8W)
C805B
100/16
ZD801B
HZ9C1
R817B
100
(1/8W)
R815B
560
(1/8W)
DR
GB
SB
1 2 3 4 5 6 7 8
+12V
GND
+9V
Y
R-Y
G-Y
B-Y
T
TO SIGNAL P.W.B. 2/4

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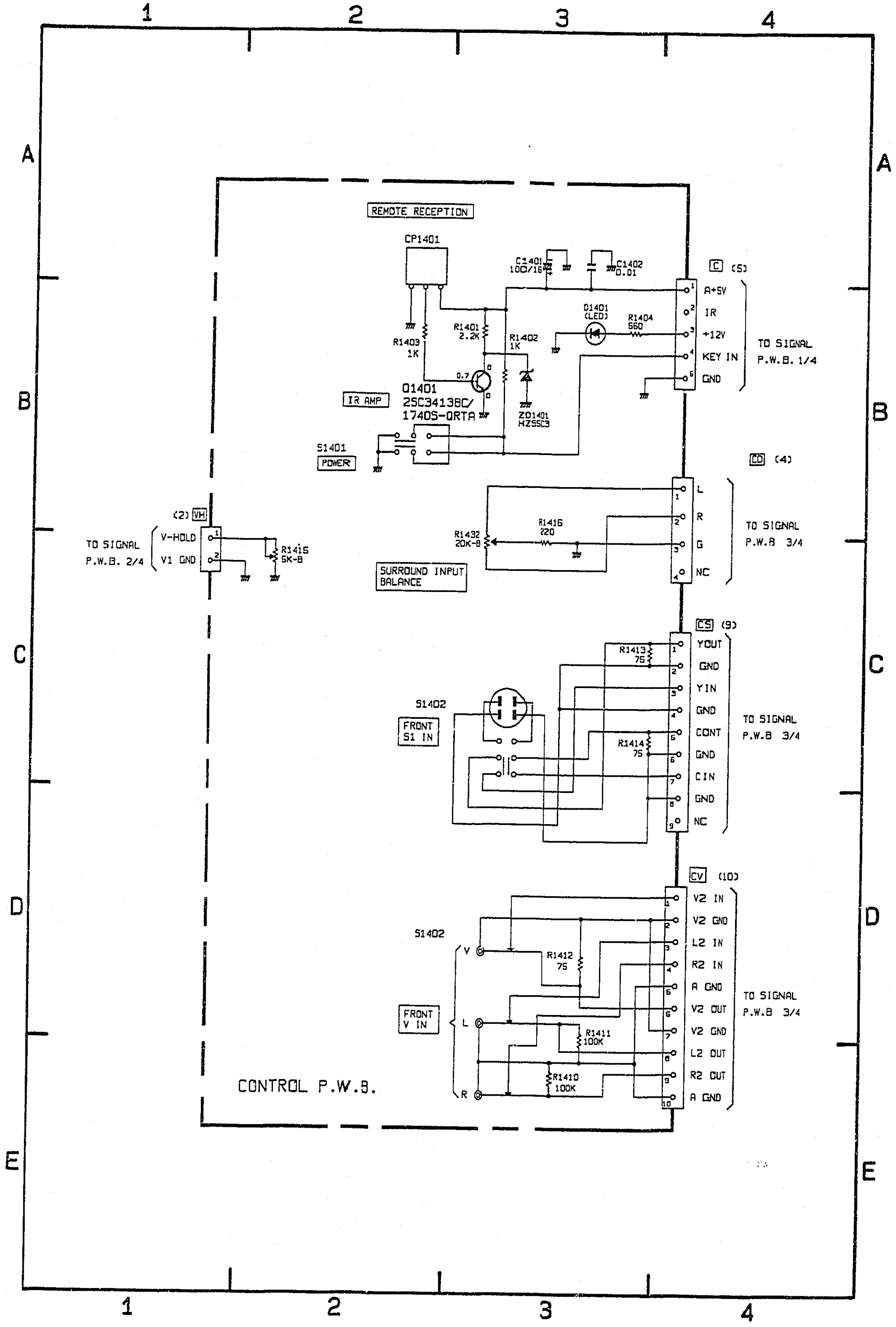
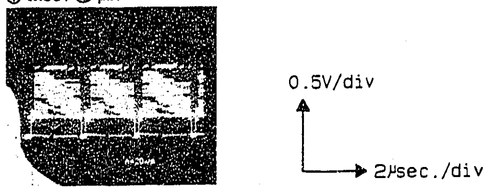

1
2
3
4
A
B
C
D
E
REMOTE RECEPTION
CP1401
C1401
100/16
C1402
0.01
R1403
1K
R1401
2.2K
R1402
1K
D1401
(LED)
R1404
560
0.7
Q1401
2SC3413BC/
1740S-QRTA
IR AMP
ZD1401
HZS5C3
S1401
POWER
C (5)
A+5V
IR
+12V
KEY IN
GND
TO SIGNAL
P.W.B. 1/4
CD (4)
L
R
G
NC
TO SIGNAL
P.W.B 3/4
(2) VH
TO SIGNAL
P.W.B. 2/4
V-HOLD
V1 GND
R1415
5K-B
R1432
20K-B
R1416
220
SURROUND INPUT
BALANCE
CS (9)
YOUT
GND
YIN
GND
CONT
GND
CIN
GND
NC
R1413
75
R1414
75
S1402
FRONT
S1 IN
TO SIGNAL
P.W.B 3/4
CV (10)
V2 IN
V2 GND
L2 IN
R2 IN
A GND
V2 OUT
V2 GND
L2 OUT
R2 OUT
A GND
S1402
V
L
R
FRONT
V IN
R1412
75
R1411
100K
R1410
100K
TO SIGNAL
P.W.B 3/4
CONTROL P.W.B.

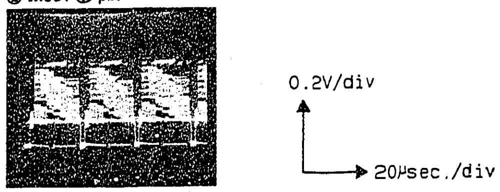
## WAVEFORMS AT EACH SECTION

### SIGNAL P.W.B. (2/4)

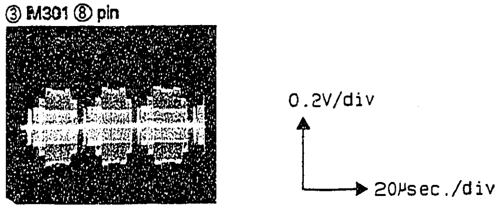
① M301 ④ pin



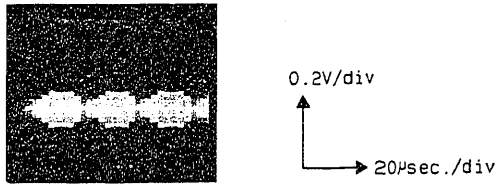
② M301 ⑥ pin



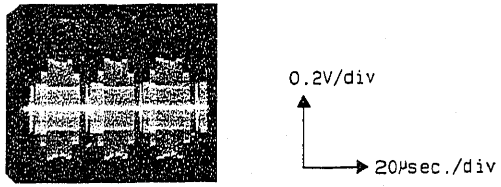
③ M301 ⑧ pin



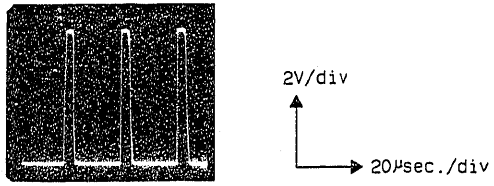
④ M301 ⑩ pin



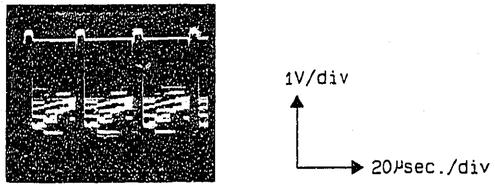
⑤ M301 ⑭ pin



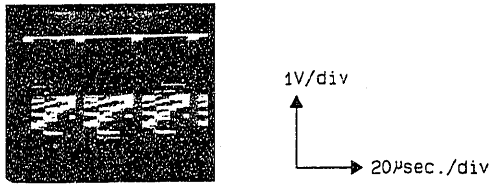
⑥ M301 ⑯ pin



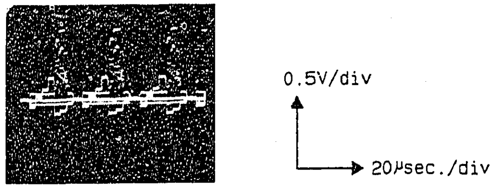
⑦ IC503 ⑩ pin



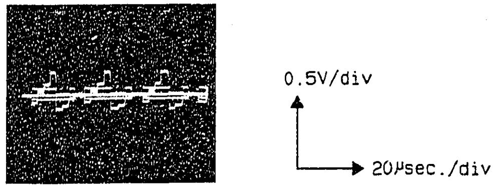
⑧ IC503 ⑪ pin



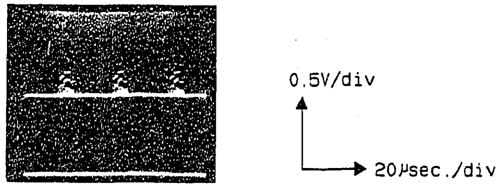
⑨ IC503 ⑰ pin



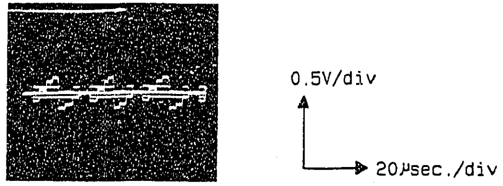
⑩ IC503 ⑱ pin



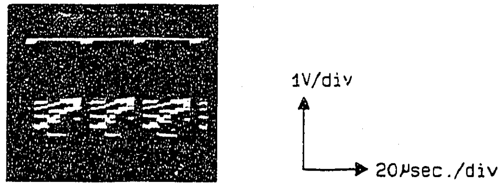
⑪ IC503 ⑲ pin



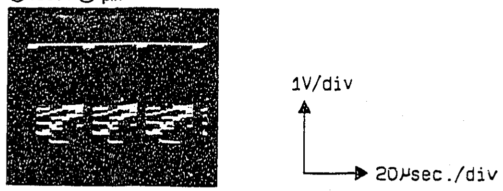
⑫ IC502 ⑲ pin



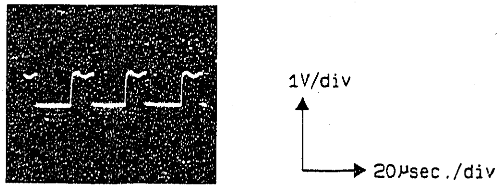
⑬ IC502 ㉔ pin



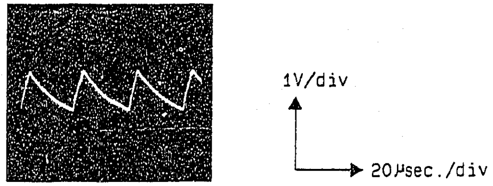
⑭ IC501 ⑨ pin



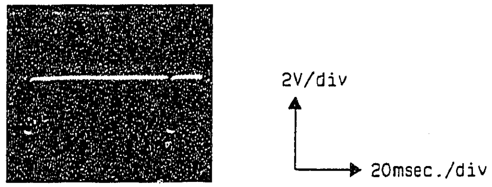
⑮ IC501 ㉓ pin



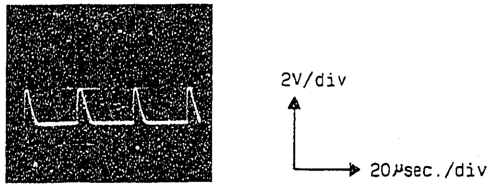
⑯ IC501 ㉗ pin



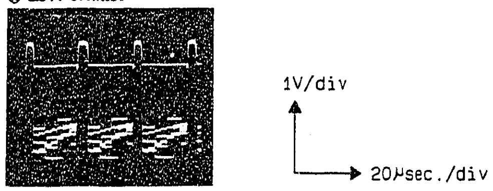
⑰ IC501 ㉚ pin



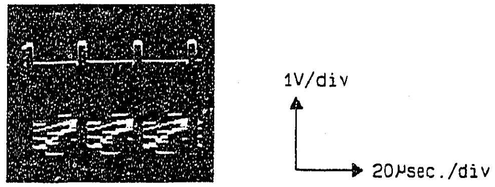
⑱ IC501 ㉝ pin



⑲ Q311 emitter

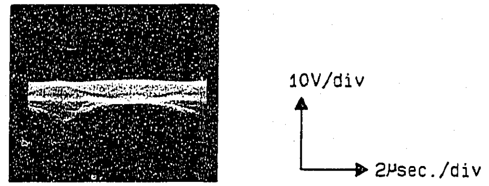


⑳ Q313 emitter

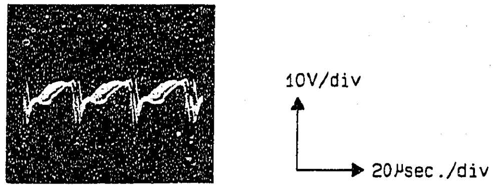


## DEFLECTION P.W.B. (1/2)

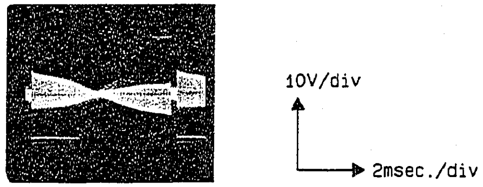
㉑ CR connector ③ pin



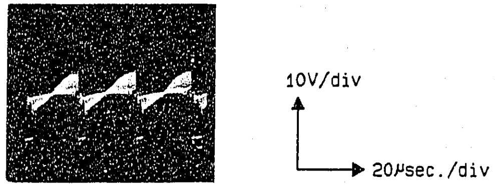
㉒ CR connector ③ pin



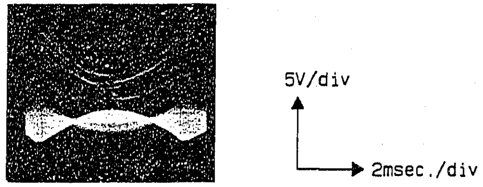
㉓ CR connector ② pin



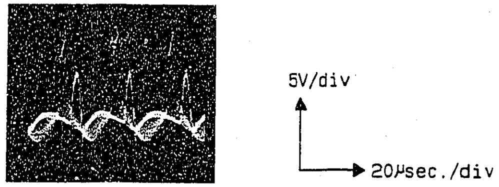
㉔ CR connector ② pin



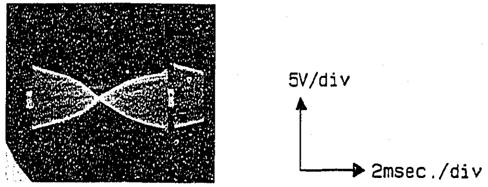
㉕ CG connector ④ pin



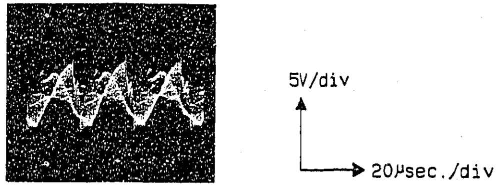
㉖ CG connector ④ pin



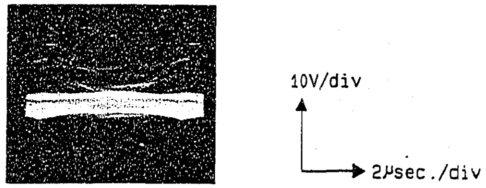
㉗ CG connector ② pin



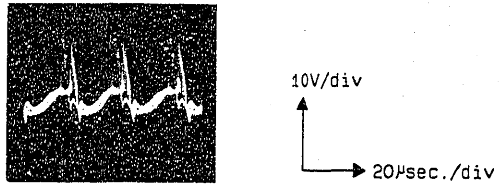
㉘ CG connector ② pin



㉙ CB connector ④ pin

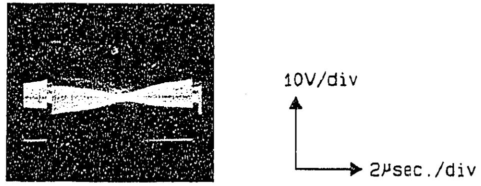


㉚ CB connector ④ pin

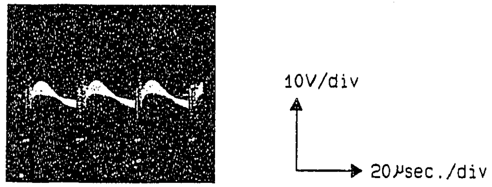


## DEFLECTION P.W.B. (1/2)

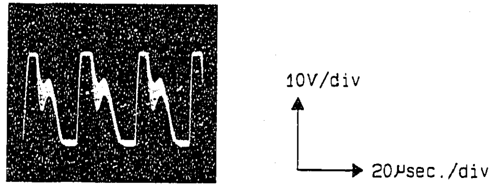
㉛ CB connector ② pin



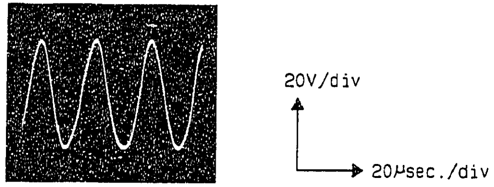
㉜ CB connector ② pin



㉝ HG connector ⑤ pin

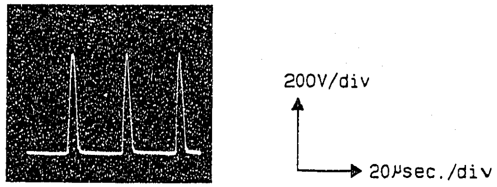


㉞ HG connector ② pin

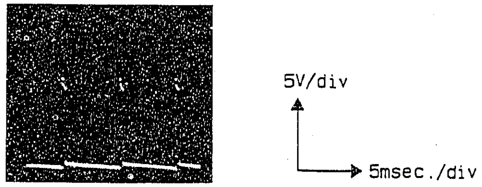


## DEFLECTION P.W.B. (2/2)

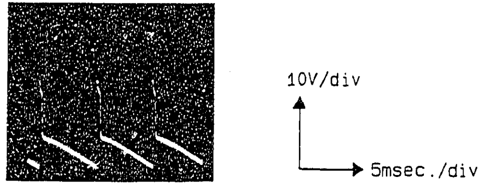
㉟ Q777 corrector



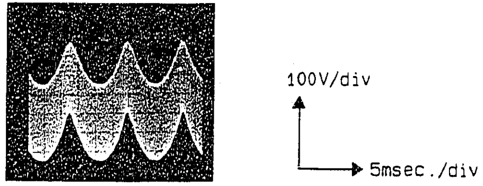
㊱ IC601 ⑨ pin



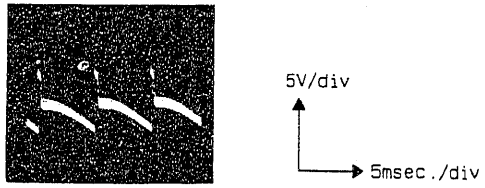
㊲ IC601 ⑫ pin



㊳ FT connector ① pin

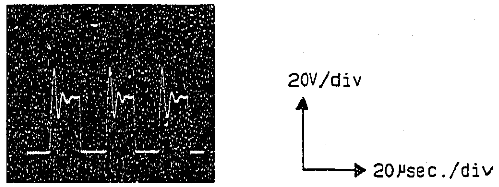


㊴ MR connector ① pin

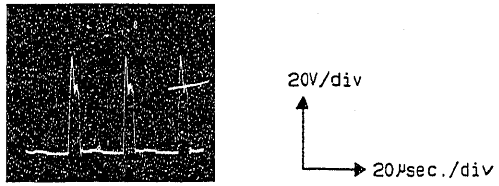


## DEFLECTION P.W.B. (2/2)

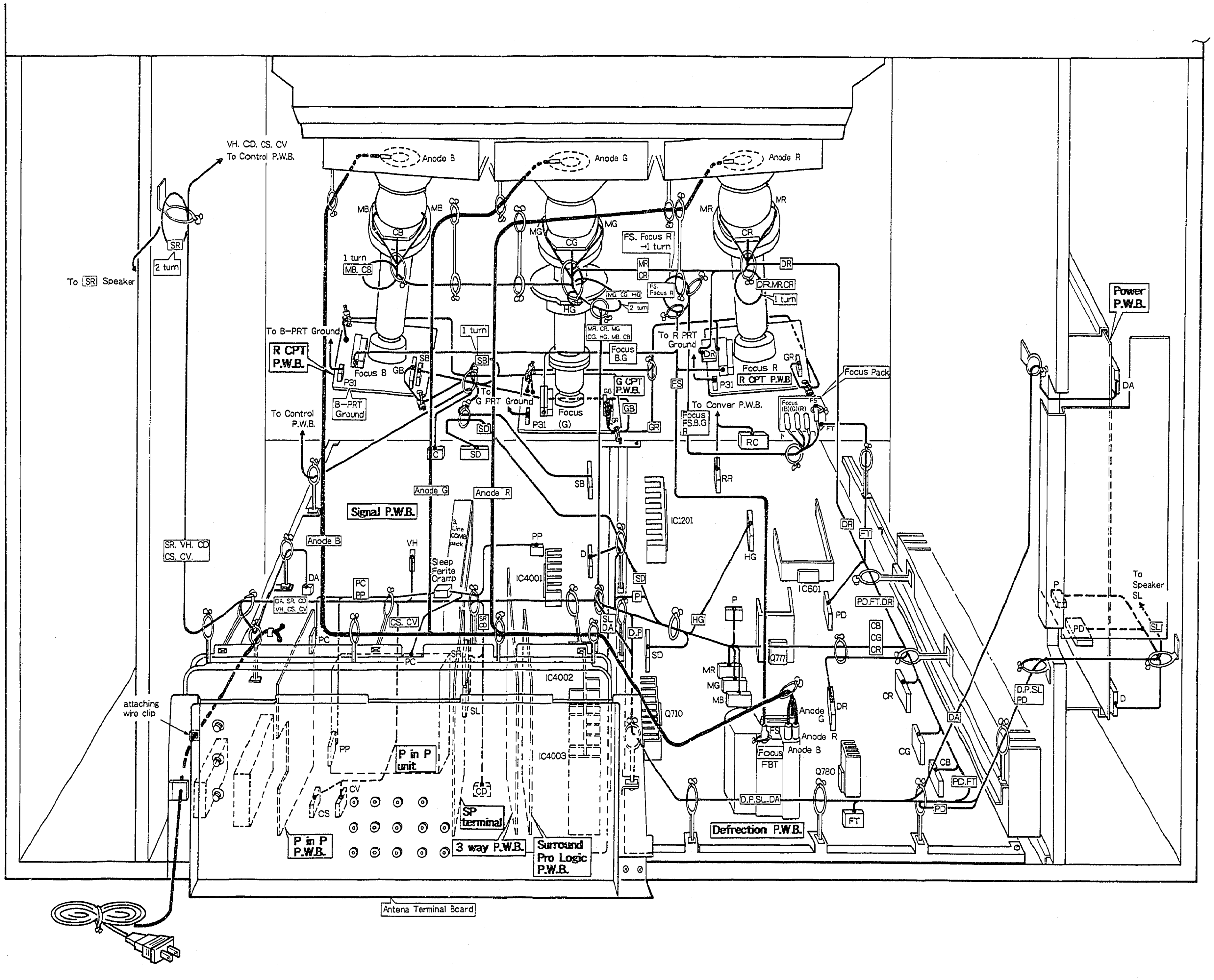
㊵ Q701 corrector



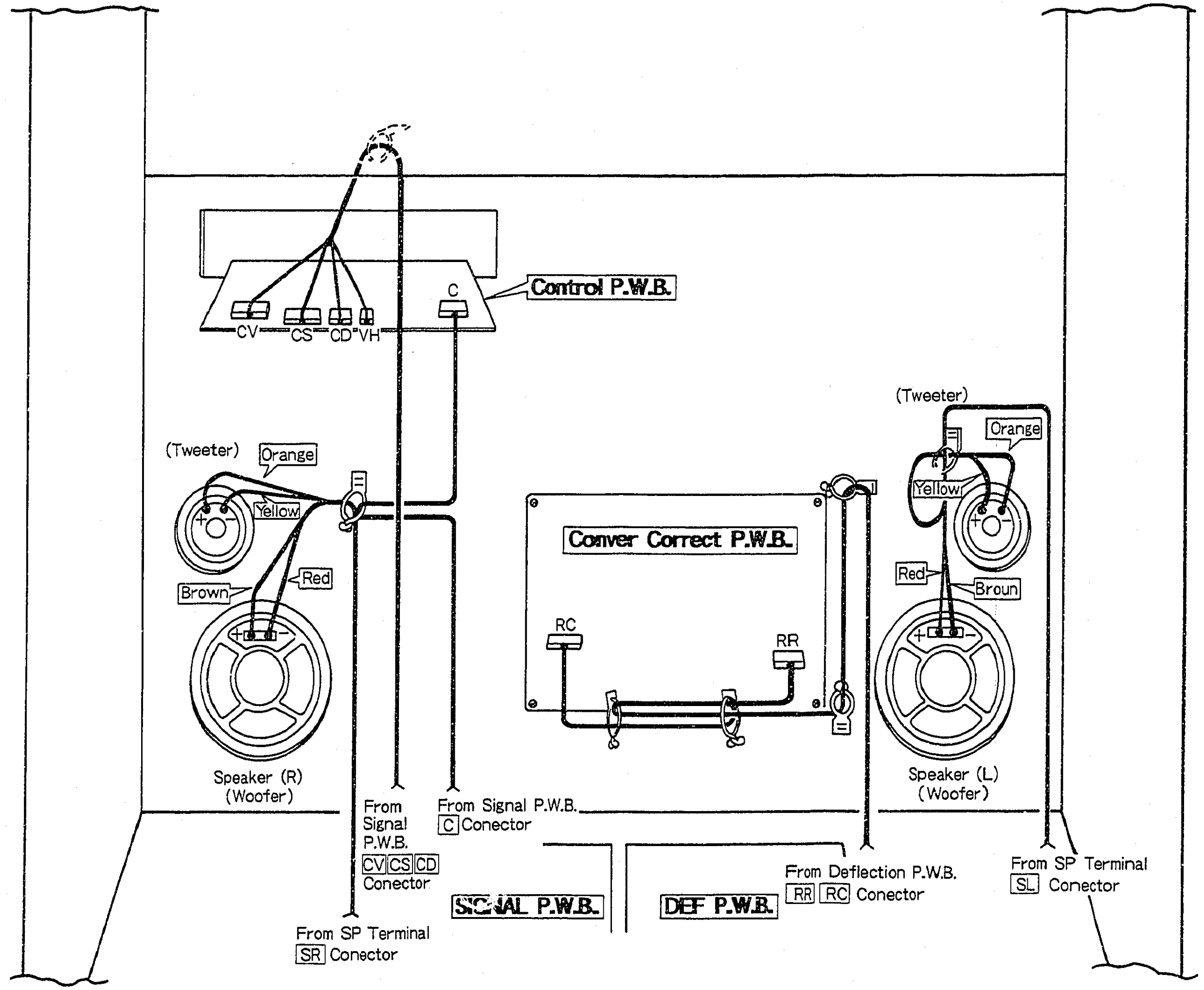
㊶ Q706 anode



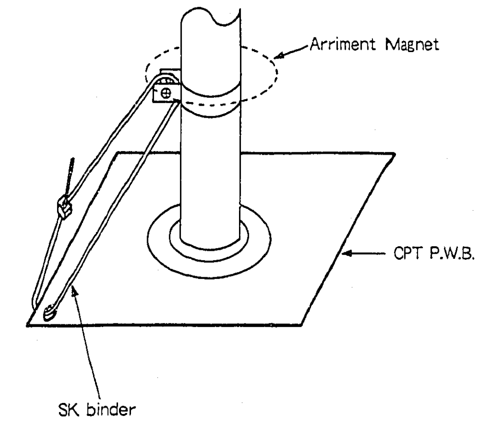
# WIRING DIAGRAM


VH. CD. CS. CV
To Control P.W.B.
Anode B
Anode G
Anode R
MB
MB
CB
MG
MG
CG
MR
MR
CR
SR
2 turn
To SR Speaker
1 turn
MB. CB
FS. Focus R
→1 turn
MR
CR
FS. Focus R
MG. CG HG
2 turn
DR
DR.MR.CR
1 turn
HG
MR. CR. MG
CG. HG. MB. CB
1 turn
To B-PRT Ground
R CPT
P.W.B.
SB
Focus B
GB
P31
B-PRT
Ground
To Control
P.W.B.
SB
To
G PRT Ground
Focus B.G
G CPT
P.W.B.
GB
GB
Focus
(G)
P31
GR
SD
SD
To R PRT
Ground
DR
FS
P31
Focus R
R CPT P.W.B
GR
Focus Pack
To Conver P.W.B.
Focus
FS.B.G
R
Focus
(B)(G)(R)
FS
FT
RC
C
SD
SB
Anode G
Anode R
RR
IC1201
Signal P.W.B.
3.
Line
COMB
pack
SR. VH. CD
CS. CV.
Anode B
VH
Sleep
Ferite
Cramp
PP
D
IC4001
HG
DR
FT
IC601
DA
DA. SR. CD
VH. CS. CV
PC
PP
CS. CV
SR
CD
SD
P
SL
DA
D.P
HG
P
PD.FT.DR
PD
CB
CG
CR
Q777
PC
PC
SR
SD
IC4002
MR
MG
MB
Q710
Anode G
DR
CR
Anode R
FS
Anode B
Focus
FBT
Q780
CG
CB
attaching
wire clip
SL
PP
P in P
unit
IC4003
CD
CV
CS
SP
terminal
D.P.SL.DA
Defrection P.W.B.
FT
PD.FT
PD
DA
D.P.SL
PD
D
P in P
P.W.B.
3 way P.W.B.
Surround
Pro Logic
P.W.B.
Antena Terminal Board
Power
P.W.B.
DA
To
Speaker
SL
P
PD
SL

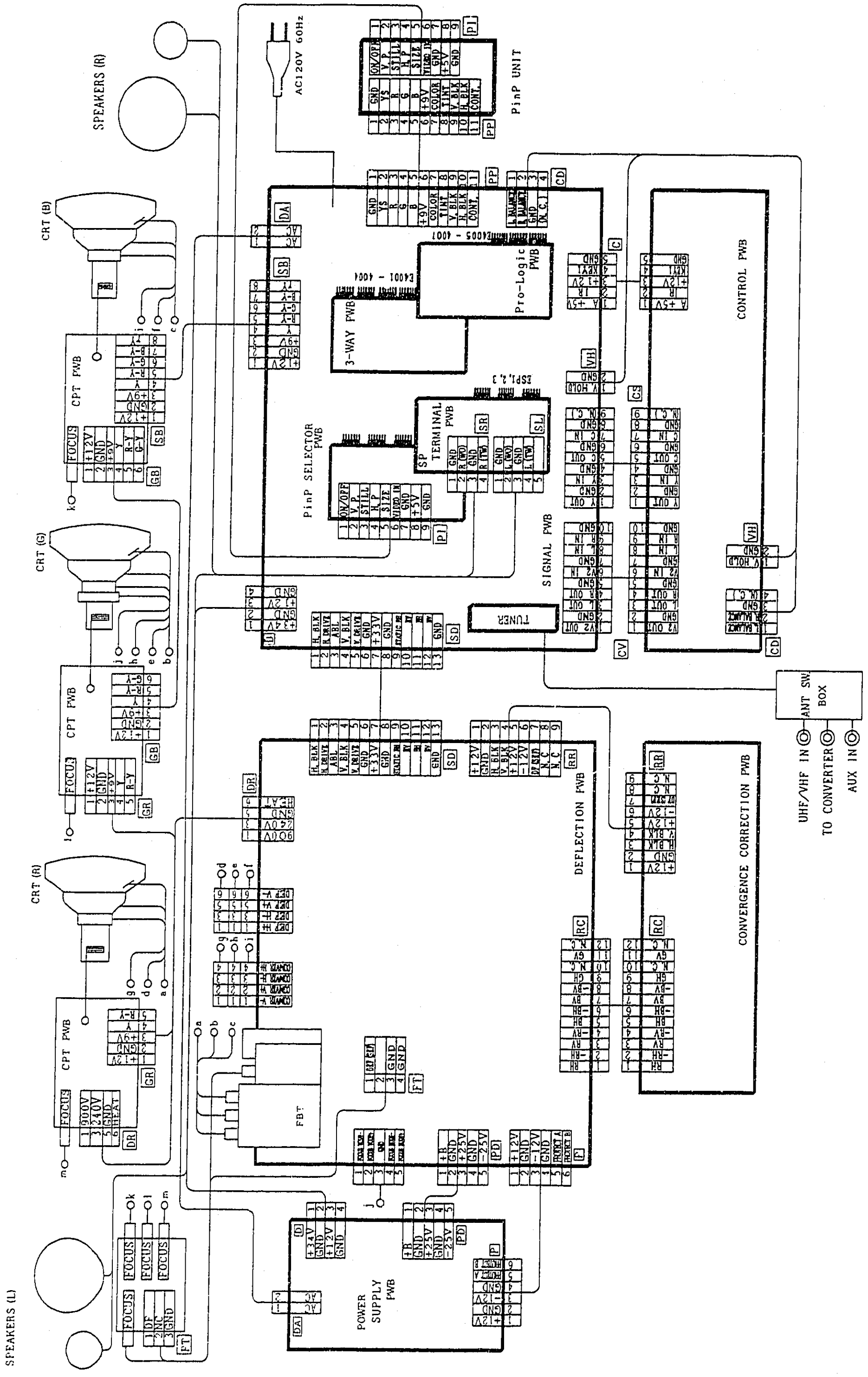
# WIRING DIAGRAM


Control P.W.B.
C
CV
CS
CD
VH
(Tweeter)
Orange
Yellow
Brown
Red
Speaker (R)
(Woofer)
From Signal P.W.B. CV CS CD Conector
From Signal P.W.B. C Conector
From SP Terminal SR Conector
SIGNAL P.W.B.
DEF P.W.B.
Conver Correct P.W.B.
RC
RR
From Deflection P.W.B. RR RC Conector
(Tweeter)
Orange
Yellow
Red
Broun
Speaker (L)
(Woofer)
From SP Terminal SL Conector

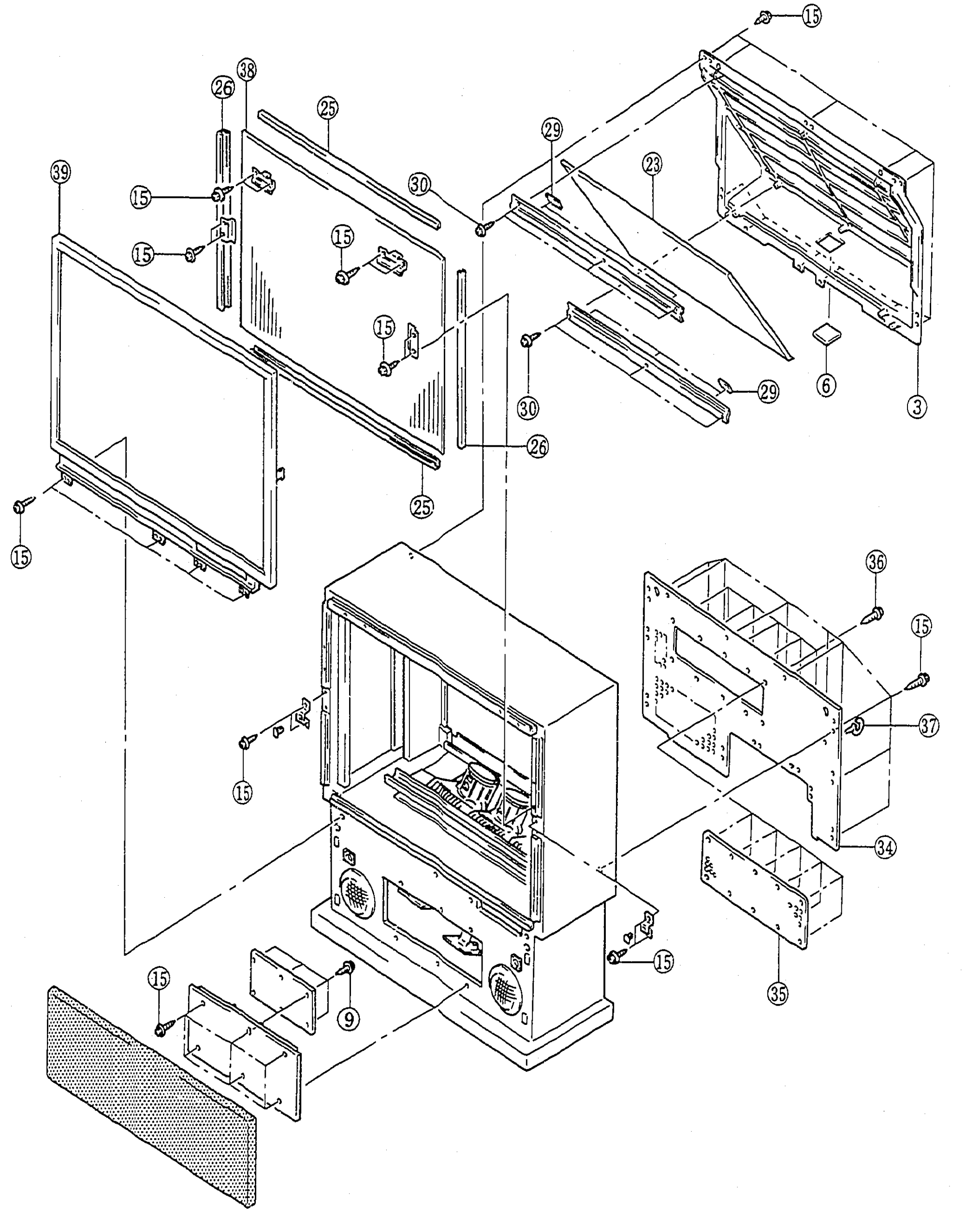
G-PRT only
clamping CPT P.W.B. with SK binder


Arriment Magnet
CPT P.W.B.
SK binder

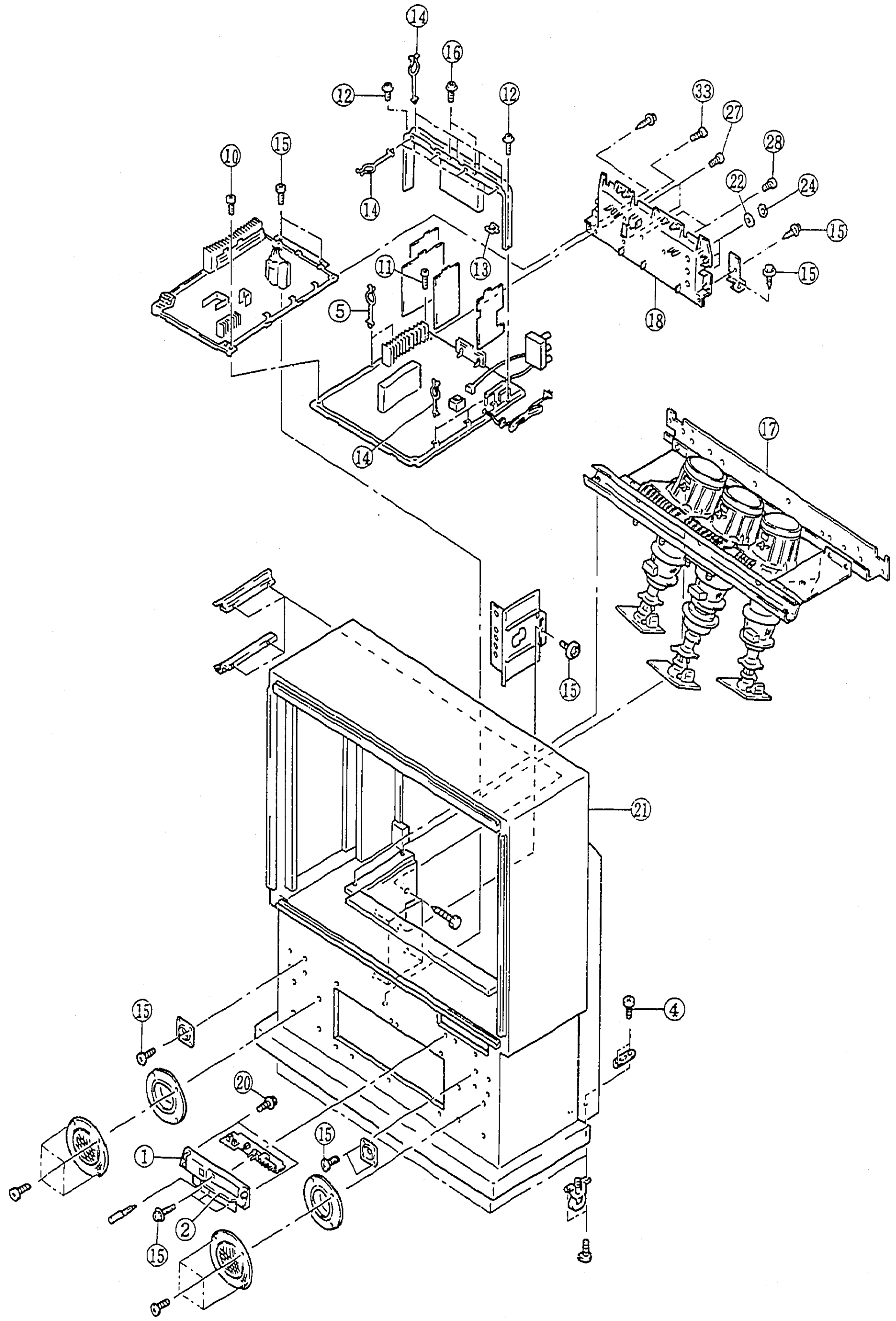
## WIRING DIAGRAM


SPEAKERS (R)
AC120V 60Hz
PinP UNIT
CRT (B)
CPT PWB
3-WAY PWB
Pro-Logic PWB
CONTROL PWB
PinP SELECTOR PWB
SP TERMINAL PWB
SIGNAL PWB
TUNER
CRT (G)
CPT PWB
ANT SW BOX
UHF/VHF IN
TO CONVERTER
AUX IN
CRT (R)
CPT PWB
DEFLECTION PWB
CONVERGENCE CORRECTION PWB
FBT
POWER SUPPLY PWB
SPEAKERS (L)
FOCUS

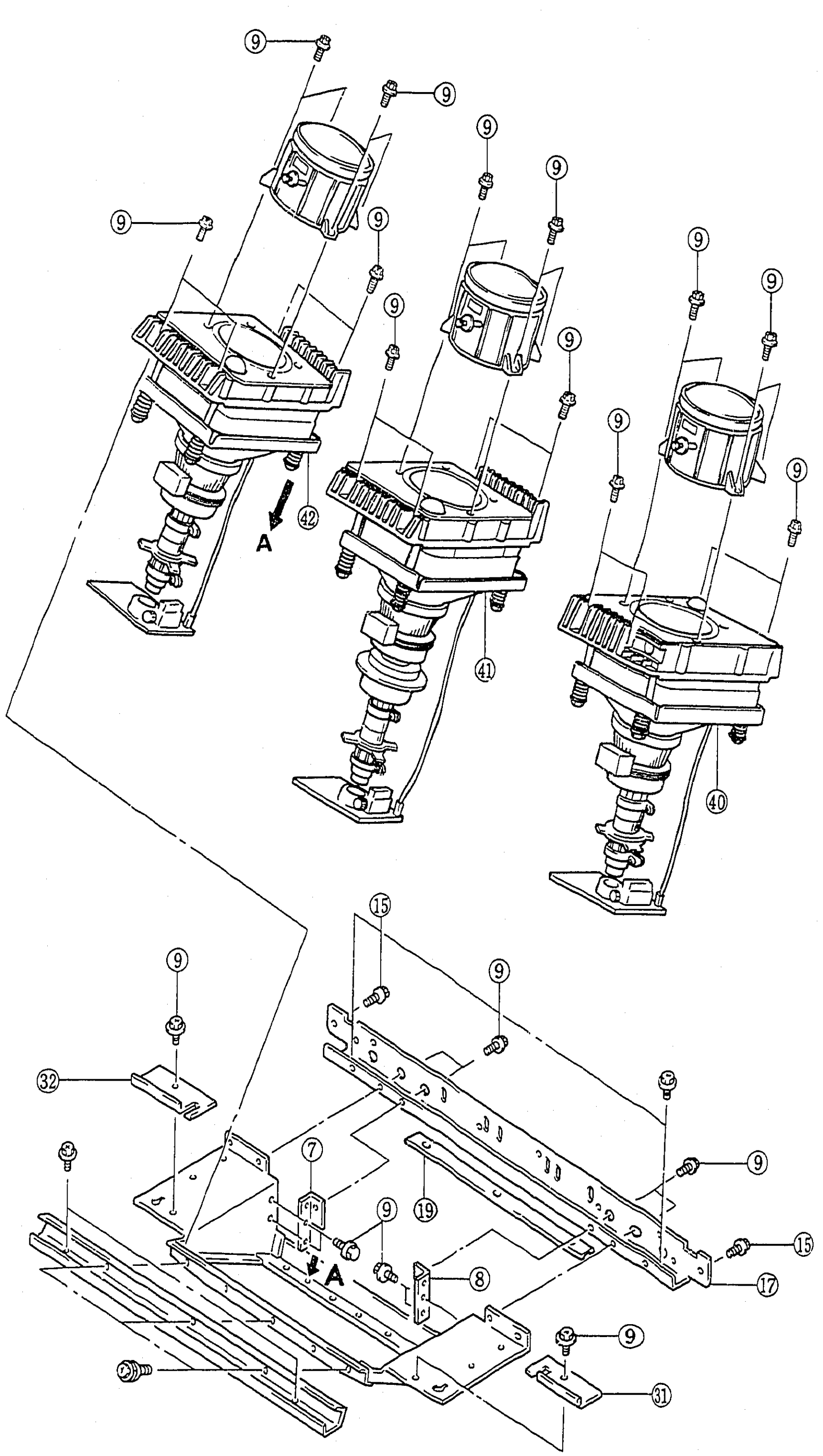
## EXPLODED VIEW (1/3)


15
38
26
25
39
15
15
29
30
23
15
15
30
29
6
3
26
25
15
36
15
37
15
34
15
35
15
9

## EXPLODED VIEW (2/3)


14
16
12
12
10
15
33
27
28
22
24
15
15
14
11
13
5
18
14
17
15
21
4
15
20
1
15
2
15

## EXPLODED VIEW (3/3)



## REPLACEMENT PARTS LIST

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| ABBREVIATIONS | | |
|---|---|---|
| | Capacitors ......... | CD:Ceramic disk, PF:Polyester film, EL:Electrolytic, PP:Polypropylene, PR:Paper, TA:Tantalum, TM:Trimmer. |
| | Resistors .......... | CF:Carbon film, CC:Carbon composition, MF:Metal oxide film, VR:Variable resistor, WW:Wire would, FR: Fuse resistor, MG:Metal glazed |
| | Semiconductor .... | TR:Transistor, DI:Diode, ZD:Zener diode, VA:Varistor, TH:Thermistor, IC:IC. |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| | | **CAPACITORS** |
| C0001 | 0247854 | CD 100PF +-5% 500V |
| C0002 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0005 | 0248690 | CD 180PF +-5% 50V |
| C0006 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0007 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0008 | 0880057 | PF 0.1MF +-10% 50V |
| C0009 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0010 | 0244105 | CD 2200PF +-10% 50V |
| C0011 | 0880048 | PF 0.022MF +-10% 50V |
| C0012 | 0890067 | CD 33PF +-5% 50V |
| C0013 | 0890067 | CD 33PF +-5% 50V |
| C0014 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0015 | 0880057 | PF 0.1MF +-10% 50V |
| C0016 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0017 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0018 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0019 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0020 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0021 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0022 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0023 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0024 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0025 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0026 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C0027 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0028 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C0029 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0030 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0031 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0032 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C0033 | 0880057 | PF 0.1MF +-10% 50V |
| C0034 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C0035 | 0800047 | CAPACITOR ELECTROLYTIC 100MF 6.3V |
| C0036 | 0880053 | PF 0.047MF +-10% 50V |
| C0037 | 0880044 | PF 0.01MF +-10% 50V |
| C0038 | 0244501 | CD 1000PF +-10% 500V |
| C0039 | 0284628R | EL 3.3MF 50V |
| C0041 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0042 | 0247854 | CD 100PF +-5% 500V |
| C0043 | 0247854 | CD 100PF +-5% 500V |
| C0044 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0046 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0047 | 0890084 | CD 560PF +-10% 50V |
| C0048 | 0880051 | PF 0.033MF +-10% 50V |
| C0049 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C0051 | 0284449R | EL 4.7MF 50V |
| C0052 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0053 | 0880044 | PF 0.01MF +-10% 50V |
| C0055 | 0880044 | PF 0.01MF +-10% 50V |
| C0056 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0057 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0058 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C1111 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C1112 | 0244141 | CD 0.01MF +-10% 50V |
| C1113 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C1114 | 0244141 | CD 0.01MF +-10% 50V |
| C1115 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C1116 | 0244141 | CD 0.01MF +-10% 50V |
| C1117 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C1118 | 0244141 | CD 0.01MF +-10% 50V |
| C1226 | 0890074 | CD 100PF +-5% 50V |
| C1227 | 0890074 | CD 100PF +-5% 50V |
| C1276 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C1277 | 0880062 | PF 0.22MF +-10% 50V |
| C1278 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C1280 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C1291 | 0299996 | PP 0.033MF +-5% 630V |
| C1293 | 0299610F | PP 1000PF +-5% 630V |
| C1301 | 0890087 | CD 1000PF +-10% 50V |
| C1302 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1312 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1326 | 0890087 | CD 1000PF +-10% 50V |
| C1327 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1336 | 0890087 | CD 1000PF +-10% 50V |
| C1337 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1351 | 0890087 | CD 1000PF +-10% 50V |
| C1352 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1362 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C1387 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C1388 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C1389 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C1391 | 0248688 | CD 150PF +-5% 50V |
| C1393 | 0248688 | CD 150PF +-5% 50V |
| C1395 | 0248688 | CD 150PF +-5% 50V |
| C1401 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C1402 | 0890087 | CD 1000PF +-10% 50V | C2183 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2001 | 0880044 | PF0.01MF +-10% 50V | C2184 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2002 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C2185 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2003 | 0890083 | CD 470PF +-10% 50V | C2186 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2004 | 0890085 | CD 680PF +-10% 50V | C2187 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2005 | 0880031 | PF 1000PF +-10% 50V | C2188 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2006 | 0890121 | CD 33PF +-5% 50V | C2189 | 0880013 | PF 0.033MF +-10% 50V |
| C2007 | 0800058 | CAPACITOR ELECTROLYTIC 220MF 16V | C2190 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2101 | 0244136 | CD 270PF +-10% 50V | C2191 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2102 | 0880001 | PF 680PF +-10% 50V | C2192 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2104 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C2301 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C2105 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C2302 | 0244118 | CD 470PF +-10% 50V |
| C2106 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C2303 | 0244120 | CD 820PF +-10% 50V |
| C2107 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C2304 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C2112 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V | C2309 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C2113 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3001 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2117 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3002 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2124 | 0880005 | PF 2200PF +-10% 50V | C301 | 0284638 | EL 10MF 16V |
| C2126 | 0299001 | PP 0.001MF +-2% 100V | C3013 | 0890062 | CD 12PF +-5% 50V |
| C2127 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3014 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2129 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3016 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2131 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3017 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2137 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C3018 | 0880044 | PF 0.01MF +-10% 50V |
| C2138 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C302 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2139 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3020 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2140 | 0880014 | PF 0.047MF +-10% 50V | C303 | 0890067 | CD 33PF +-5% 50V |
| C2142 | 0880016 | PF 0.1MF +-10% 50V | C3030 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2143 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C3031 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2144 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C3032 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C2145 | 0244141 | CD 0.01MF +-10% 50V | C3033 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2146 | 0244141 | CD 0.01MF +-10% 50V | C3035 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2147 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C3036 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2148 | 0252417 | EL 1MF 50V | C3037 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2149 | 0252417 | EL 1MF 50V | C3038 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2150 | 0252417 | EL 1MF 50V | C304 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2151 | 0252417 | EL 1MF 50V | C3044 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2152 | 0252417 | EL 1MF 50V | C3045 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2153 | 0252417 | EL 1MF 50V | C3046 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2154 | 0244229 | CD 150PF +-10% 50V | C305 | 0244171 | CD 0.01MF +80-20% 50V |
| C2155 | 0244141 | CD 0.01MF +-10% 50V | C3052 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2156 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V | C3053 | 0284667 | EL 47MF 16V |
| C2160 | 0880011 | PF 0.015MF +-10% 50V | C3055 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2161 | 0880009 | PF 0.01MF +-10% 50V | C3057 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2162 | 0299029 | PP 0.015MF +-2% 100V | C3058 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2163 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3059 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2164 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C306 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2166 | 0880013 | PF 0.033MF +-10% 50V | C3062 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2175 | 0299029 | PP 0.015MF +-2% 100V | C3063 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2176 | 0880009 | PF 0.01MF +-10% 50V | C307 | 0244171 | CD 0.01MF +80-20% 50V |
| C2177 | 0880011 | PF 0.015MF +-10% 50V | C3071 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2178 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3072 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2179 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3073 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2180 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3076 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2181 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C3077 | 0880044 | PF 0.01MF +-10% 50V |
| C2182 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C3078 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C3079 | 0880044 | PF 0.01MF +-10% 50V | C3326 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C308 | 0890115 | CD 12PF +-5% 50V | C333 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3080 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C334 | 0244171 | CD 0.01MF +80-20% 50V |
| C3081 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C335 | 0880057 | PF0.1MF +-10% 50V |
| C3082 | 0880044 | PF 0.01MF +-10% 50V | C336 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3083 | 0880044 | PF 0.01MF +-10% 50V | C337 | 0890083 | CD 470PF +-10% 50V |
| C3084 | 0880044 | PF 0.01MF +-10% 50V | C339 | 0284667 | EL 47MF 16V |
| C3085 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C340 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3086 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C341 | 0880031 | PF 1000PF +-10% 50V |
| C3087 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4001 | 0252953 | EL 4700MF 16V |
| C3088 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4002 | 0259411F | EL 3300MF 50V |
| C3089 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4003 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C309 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4004 | 0880057 | PF0.1MF +-10% 50V |
| C3090 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4005 | 0880057 | PF0.1MF +-10% 50V |
| C3091 | 0880057 | PF 0.1MF +-10% 50V | C4006 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3092 | 0880057 | PF 0.1MF +-10% 50V | C4007 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C310 | 0244171 | CD 0.01MF +80-20% 50V | C4008 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C311 | 0244171 | CD 0.01MF +80-20% 50V | C4009 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C312 | 0890059 | CD 9PF +-0.5% 50V | C4010 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C313 | 0244171 | CD 0.01MF +80-20% 50V | C4011 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C314 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4012 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C315 | 0244171 | CD 0.01MF +80-20% 50V | C4013 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C316 | 0244171 | CD 0.01MF +80-20% 50V | C4014 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C317 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4015 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C318 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4016 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C319 | 0890084 | CD 560PF +-10% 50V | C4017 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C320 | 0890087 | CD 1000PF +-10% 50V | C4018 | 0880031 | PF 1000PF +-10% 50V |
| C321 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V | C4019 | 0800067 | CAPACITOR,ELECTROLYTIC 330MF 25V |
| C322 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4020 | 0880031 | PF 1000PF +-10% 50V |
| C323 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4021 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C324 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4022 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C325 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4024 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C326 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4025 | 0284446R | EL 1MF 50V |
| C327 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4026 | 0880053 | PF 0.047MF +-10% 50V |
| C328 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4027 | 0880053 | PF 0.047MF +-10% 50V |
| C329 | 0244171 | CD 0.01MF +80-20% 50V | C4028 | 0284446R | EL 1MF 50V |
| C330 | 0244171 | CD 0.01MF +80-20% 50V | C4029 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C3301 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4030 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C3302 | 0880044 | PF 0.01MF +-10% 50V | C4031 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C3303 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4032 | 0800082 | CAPACITOR ELECTROLYTIC 1000MF 16V |
| C3304 | 0880044 | PF 0.01MF +-10% 50V | C4033 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C3305 | 0880057 | PF 0.1MF +-10% 50V | C4034 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C3306 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4035 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3307 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4036 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V |
| C3308 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4037 | 0880057 | PF 0.1MF +-10% 50V |
| C3309 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4038 | 0800077 | CAPACITOR,ELECTROLYTIC 470MF 50V |
| C331 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V | C4039 | 0880057 | PF 0.1MF +-10% 50V |
| C3310 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4040 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3311 | 0880044 | PF 0.01MF +-10% 50V | C4041 | 0880031 | PF 1000PF +-10% 50V |
| C332 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4042 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3321 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4043 | 0800067 | CAPACITOR,ELECTROLYTIC 330MF 25V |
| C3322 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4044 | 0880031 | PF 1000PF +-10% 50V |
| C3323 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4045 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3324 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4047 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3325 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4048 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C4049 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V | C4435 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4050 | 0880057 | PF 0.1MF +-10% 50V | C4436 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4051 | 0880057 | PF 0.1MF +-10% 50V | C4437 | 0890074 | CD 100PF +-5% 50V |
| C4052 | 0800077 | CAPACITOR,ELECTROLYTIC 470MF 50V | C4438 | 0890074 | CD 100PF +-5% 50V |
| C4053 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4439 | 0248688 | CD 150PF +-5% 50V |
| C4054 | 0880044 | PF 0.01MF +-10% 50V | C4440 | 0880035 | PF 2200PF +-10% 50V |
| C4055 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4441 | 0284623R | EL 1MF 50V |
| C4058 | 0880057 | PF 0.1MF +-10% 50V | C4442 | 0284623R | EL 1MF 50V |
| C4059 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4443 | 0284623R | EL 1MF 50V |
| C4060 | 0880057 | PF 0.1MF +-10% 50V | C4444 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4061 | 0880057 | PF 0.1MF +-10% 50V | C4445 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C4062 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4446 | 0880044 | PF 0.01MF +-10% 50V |
| C4063 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4447 | 0880044 | PF 0.01MF +-10% 50V |
| C4064 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4448 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4065 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4450 | 0890074 | CD 100PF +-5% 50V |
| C4066 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4451 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4067 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4452 | 0890087 | CD 1000PF +-10% 50V |
| C4068 | 0800007 | CAPACITOR,ELECTROLYTIC 3.3MF 50V | C4453 | 0244109 | CD 4700PF +-10% 50V |
| C4070 | 0800026 | CAPACITOR ELECTROLYTIC 22MF 50V | C4454 | 0880041 | PF 5600PF +-10% 50V |
| C4071 | 0800026 | CAPACITOR ELECTROLYTIC 22MF 50V | C4455 | 0249093 | CD 470PF +-5% 50V |
| C4072 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4456 | 0880041 | PF 5600PF +-10% 50V |
| C4073 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4457 | 0800105 | CAPACITOR ELECTROLYTIC 0.33MF 50V |
| C4074 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4458 | 0800101 | CAPACITOR ELECTROLYTIC 0.1MF 50V |
| C4075 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4459 | 0880049 | PF 0.027MF +-10% 50V |
| C4076 | 0800082 | CAPACITOR ELECTROLYTIC 1000MF 16V | C4460 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4077 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4461 | 0880053 | PF 0.047MF +-10% 50V |
| C4078 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4462 | 0880039 | PF 4700PF +-10% 50V |
| C4079 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4463 | 0284623R | EL 1MF 50V |
| C4081 | 0880057 | PF 0.1MF +-10% 50V | C4464 | 0284623R | EL 1MF 50V |
| C4401 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4465 | 0252410 | EL 10MF 35V |
| C4402 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4466 | 0800059 | CAPACITOR ELECTROLYTIC 220MF 25V |
| C4403 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4467 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C4404 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4468 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4405 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4469 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4406 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V | C4470 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4407 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4471 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4408 | 0880057 | PF 0.1MF +-10% 50V | C4472 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4409 | 0880055 | PF 0.068MF +-10% 50V | C4475 | 0880051 | PF 0.033MF +-10% 50V |
| C4410 | 0880037 | PF 3300PF +-10% 50V | C4476 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4411 | 0890061 | CD 10PF +-0.5% 50V | C4477 | 0880033 | PF 1500PF +-10% 50V |
| C4412 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4478 | 0880051 | PF 0.033MF +-10% 50V |
| C4413 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4481 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4414 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4482 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4415 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4483 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4416 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4485 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4420 | 0880048 | PF 0.022MF +-10% 50V | C4486 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C4422 | 0880048 | PF 0.022MF +-10% 50V | C4601 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4424 | 0880035 | PF 2200PF +-10% 50V | C4602 | 0284623R | EL 1MF 50V |
| C4425 | 0880048 | PF 0.022MF +-10% 50V | C4603 | 0880044 | PF 0.01MF +-10% 50V |
| C4426 | 0244104 | CD 1800PF +-10% 50V | C4604 | 0244139 | CD 1000PF +-10% 50V |
| C4427 | 0880048 | PF 0.022MF +-10% 50V | C4605 | 0880044 | PF 0.01MF +-10% 50V |
| C4428 | 0244104 | CD 1800PF +-10% 50V | C4606 | 0880044 | PF 0.01MF +-10% 50V |
| C4429 | 0880051 | PF 0.033MF +-10% 50V | C4607 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4430 | 0880034 | PF 1800PF +-10% 50V | C4608 | 0890085 | CD 680PF +-10% 50V |
| C4431 | 0880051 | PF 0.033MF +-10% 50V | C4609 | 0880057 | CD 0.1MF +-10% 50V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C4610 | 0880057 | CD 0.1MF +-10% 50V | C509 | 0244171 | CD 0.01MF +80-20% 50V |
| C4611 | 0880019 | PF 0.33MF +-10% 50V | C510 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V |
| C4612 | 0880019 | PF 0.33MF +-10% 50V | C511 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4613 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V | C512 | 0880044 | PF 0.01MF +-10% 50V |
| C4614 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V | C513 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C4615 | 0244111 | CD 6800PF +-10% 50V | C515 | 0890076 | CD 150PF +-10% 50V |
| C4616 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C516 | 0890076 | CD 150PF +-10% 50V |
| C4617 | 0880062 | PF 0.22MF +-10% 50V | C517 | 0890076 | CD 150PF +-10% 50V |
| C4618 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C518 | 0890067 | CD 33PF +-5% 50V |
| C4619 | 0880062 | PF 0.22MF +-10% 50V | C519 | 0890067 | CD 33PF +-5% 50V |
| C4620 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C520 | 0890067 | CD 33PF +-5% 50V |
| C4621 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C521 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4622 | 0276673 | PF 0.47MF +-10% 50V | C522 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4624 | 0880062 | PF 0.22MF +-10% 50V | C523 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4625 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V | C524 | 0244171 | CD 0.01MF +80-20% 50V |
| C4626 | 0880062 | PF 0.22MF +-10% 50V | C525 | 0244171 | CD 0.01MF +80-20% 50V |
| C4627 | 0244111 | CD 6800PF +-10% 50V | C526 | 0244171 | CD 0.01MF +80-20% 50V |
| C4628 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V | C527 | 0244171 | CD 0.01MF +80-20% 50V |
| C4629 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V | C528 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4630 | 0880057 | PF 0.1MF +-10% 50V | C601 | 0880044 | PF 0.01MF +-10% 50V |
| C4631 | 0880057 | PF 0.1MF +-10% 50V | C602 | 0880053 | PF 0.047MF +-10% 50V |
| C4632 | 0880057 | PF 0.1MF +-10% 50V | C603 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4633 | 0880057 | PF 0.1MF +-10% 50V | C604 | 0880035 | PF 2200PF +-10% 50V |
| C4634 | 0244117 | CD 680PF +-10% 50V | C605 | 0880037 | PF 3300PF +-10% 50V |
| C4635 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C606 | 0880057 | PF 0.1MF +-10% 50V |
| C4636 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C607 | 0880037 | PF 3300PF +-10% 50V |
| C4637 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C651 | 0279859 | PF 0.1MF +-10% 100V |
| C4638 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V | C652 | 0880051 | PF 0.033MF +-10% 50V |
| C4639 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V | C653 | 0880044 | PF 0.01MF +-10% 50V |
| C4640 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | ⚠C654 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C4644 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C655 | 0252969 | EL 2200MF 25V |
| C4645 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C656 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C4646 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C658 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C4647 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C659 | 0284446R | EL 1MF 50V |
| C4648 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | ⚠C660 | 0292716 | TA 1MF +-10% 20V |
| C4649 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C664 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C4650 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C665 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4653 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C666 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4654 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C668 | 0880044 | PF 0.01MF +-10% 50V |
| C4655 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C669 | 0880062 | PF 0.22MF +-10% 50V |
| C4656 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C670 | 0880062 | PF 0.22MF +-10% 50V |
| C4657 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C7001 | 0890084 | CD 560PF +-10% 50V |
| C4658 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C7002 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4805 | 0257048 | EL 2.2MF 25V | C7003 | 0244104 | CD 1800PF +-10% 50V |
| C4806 | 0257048 | EL 2.2MF 25V | C7004 | 0880048 | PF 0.022MF +-10% 50V |
| C4807 | 0257048 | EL 2.2MF 25V | C7005 | 0890081 | CD 330PF +-10% 50V |
| C4808 | 0257048 | EL 2.2MF 25V | C7006 | 0890087 | CD 1000PF +-10% 50V |
| C501 | 0880044 | PF 0.01MF +-10% 50V | C7007 | 0880053 | PF 0.047MF +-10% 50V |
| C502 | 0890063 | CD 15PF +-5% 50V | C7008 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C503 | 0880044 | PF 0.01MF +-10% 50V | C7009 | 0880033 | PF 1500PF +-10% 50V |
| C504 | 0880044 | PF 0.01MF +-10% 50V | C7010 | 0244107 | CD 3300PF +-10% 50V |
| C505 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V | C7012 | 0880048 | PF 0.022MF +-10% 50V |
| C506 | 0244171 | CD 0.01MF +80-20% 50V | C7013 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C507 | 0244171 | CD 0.01MF +80-20% 50V | C7014 | 0880053 | PF 0.047MF +-10% 50V |
| C508 | 0246443 | CD 13PF +-5% 50V | C7015 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C711 | 0299926 | PP 0.1MF +-10% 200V |
| C713 | 0244501 | CD 1000PF +-10% 500V |
| C714 | 0243507 | CD 330PF +-10% 500V |
| C715 | 0890028 | CD 330PF +-10% 50V |
| ⚠C717 | 0299723 | PP 9100PF +-5% 1.6KV |
| ⚠C718 | 0299668 | PP 3600PF +-5% 1600V |
| ⚠C719 | 0299931 | PP 0.27MF +-10% 200V |
| ⚠C721 | 0299918 | PP 0.022MF +-10% 200V |
| C722 | 0259471 | EL 6.8MF 25V |
| ⚠C723 | 0244211F | CD 1000PF +-10% 2KV |
| C724 | 0259153 | EL 220MF 160V |
| C727 | 0244504 | CD 1800PF +-10% 500V |
| C729 | 0253483 | EL 33MF 350V |
| C731 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| ⚠C732 | 0299636 | PP 0.068MF +-5% 1600V |
| C738 | 0243510 | CD 560PF +-10% 500V |
| C739 | 0890087 | CD 1000PF +-10% 50V |
| C740 | 0284623R | EL 1MF 50V |
| C743 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C744 | 0880048 | PF 0.022MF +-10% 50V |
| C745 | 0880057 | PF 0.1MF +-10% 50V |
| ⚠C747 | 0299930 | PP 0.22MF +-10% 200V |
| C748 | 0247850 | CD 68PF +-5% 500V |
| C750 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C751 | 0244507 | CD 3300PF +-10% 500V |
| C755 | 0244109 | CD 4700PF +-10% 50V |
| C757 | 0284449R | EL 4.7MF 50V |
| C759 | 0800007 | CAPACITOR,ELECTROLYTIC 3.3MF 50V |
| C760 | 0243503 | CD 150PF +-10% 500V |
| C763 | 0890089 | CD 1500PF +-10% 50V |
| C781 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C782 | 0244120 | CD 820PF +-10% 50V |
| C801G | 0257543 | EL 3.3MF 315V |
| C804B | 0243425 | CD 100PF +-10% 1.6KV |
| C804G | 0243425 | CD 100PF +-10% 1.6KV |
| C804R | 0243425 | CD 100PF +-10% 1.6KV |
| C805B | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C805G | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C805R | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C807B | 0244105 | CD 2200PF +-10% 50V |
| C807G | 0244105 | CD 2200PF +-10% 50V |
| C807R | 0244105 | CD 2200PF +-10% 50V |
| C808B | 0244120 | CD 820PF +-10% 50V |
| C808G | 0244120 | CD 820PF +-10% 50V |
| C808R | 0244115 | CD 560PF +-10% 50V |
| C809R | 0244227 | CD 100PF +-10% 50V |
| C901 | 0800075 | CAPACITOR ELECTROLYTIC 470MF 25V |
| ⚠C902 | 0279718 | PF 0.1MF +-10% 125V |
| ⚠C903 | 0279718 | PF 0.1MF +-10% 125V |
| ⚠C906 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C907 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C908 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C909 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C910 | 0259167 | EL 820MF 200V |
| ⚠C911 | 0244501 | CD 1000PF +-10% 500V |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C912 | 0244501 | CD 1000PF +-10% 500V |
| C913 | 0299929 | PP 0.18MF +-10% 200V |
| C914 | 0243503 | CD 150PF +-10% 500V |
| C915 | 0890087 | CD 1000PF +-10% 50V |
| C916 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C917 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C918 | 0880062 | PF 0.22MF +-10% 50V |
| C921 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C923 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C924 | 0276223 | PF 3300PF +-5% 50V |
| C926 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| ⚠C927 | 0249487 | CD 3300PF +-20% |
| C928 | 0243511 | CD 680PF +-10% 500V |
| C929 | 0258178G | EL 470MF,63V |
| C933 | 0299969 | PP 1000PF +-5% 630V |
| C934 | 0299969 | PP 1000PF +-5% 630V |
| C935 | 0258697 | EL 470MF 160V |
| C936 | 0253460 | EL 100MF 160V |
| C937 | 0244105 | CD 2200PF +-10% 50V |
| C938 | 0880044 | PF 0.01MF +-10% 50V |
| C939 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C940 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C941 | 0890067 | CD 33PF +-5% 50V |
| C942 | 0880062 | PF 0.22MF +-10% 50V |
| C943 | 0253943 | EL 0.33MF 50V |
| C946 | 0247854 | CD 100PF +-5% 500V |
| ⚠C951 | 0259167 | EL 820MF 200V |
| C952 | 0258178G | EL 470MF,63V |
| C953 | 0243511 | CD 680PF +-10% 500V |
| C954 | 0880062 | PF 0.22MF +-10% 50V |
| C955 | 0243503 | CD 150PF +-10% 500V |
| C956 | 0243503 | CD 150PF +-10% 500V |
| C957 | 0258178G | EL 470MF,63V |
| C958 | 0258175 | EL 470MF 31.5V |
| C959 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C960 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C961 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C962 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C963 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C964 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V |
| C965 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C966 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C967 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C971 | 0880062 | PF 0.22MF +-10% 50V |
| C972 | 0800032 | CAPACITOR-ELECTROLYTIC 33MF 16V |
| C973 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C974 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C976 | 0258179G | EL 1000MF,6 |
| C977 | 0243503 | CD 150PF +-10% 500V |
| C980 | 0247850 | CD 68PF +-5% 500V |
| C983 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C984 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C985 | 0258178G | EL 470MF,63V |
| C986 | 0880062 | PF 0.22MF +-10% 50V |
| C987 | 0258175 | EL 470MF 31.5V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C988 | 0244115F | CD 560PF +-10% 50V |
| C989 | 0880062 | PF 0.22MF +-10% 50V |
| C990 | 0880062 | PF 0.22MF +-10% 50V |
| C991 | 0880062 | PF 0.22MF +-10% 50V |
| C992 | 0880062 | PF 0.22MF +-10% 50V |

## RESISTORS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R0001 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0002 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0003 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0004 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0005 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0006 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0007 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0008 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0009 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0012 | 0700061 | CF 33K OHM +-5% 1/16W |
| R0013 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0014 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0015 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0016 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0017 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0018 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0019 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0020 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0021 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0022 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0023 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0024 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0025 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0026 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0027 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0028 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0029 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0030 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0031 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0032 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0033 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0034 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0036 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0037 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0040 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0041 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0042 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0043 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0044 | 0700064 | CF 56K OHM +-5% 1/16W |
| R0045 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0046 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0047 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0048 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0049 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0050 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0051 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0052 | 0700041 | CF 1K OHM +-5% 1/16W |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R0053 | 0700041 | CF 1K OHM + -5% 1/16W |
| R0054 | 0700041 | CF 1K OHM + -5% 1/16W |
| R0055 | 0700041 | CF 1K OHM + -5% 1/16W |
| R0056 | 0700064 | CF 56K OHM +-5% 1/16W |
| R0057 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R0058 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R0059 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0060 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0061 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0062 | 0700061 | CF 33K OHM +-5% 1/16W |
| R0063 | 0700027 | CF 100 OHM +-5% 1/16W |
| R0065 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0066 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0067 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R0068 | 0700031 | CF 180 OHM +-5% 1/16W |
| R0069 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R0070 | 0700066 | CF 82K OHM +-5% 1/16W |
| R0071 | 0700066 | CF 82K OHM +-5% 1/16W |
| R0072 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0073 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0074 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0075 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0076 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0077 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0078 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0079 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0080 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0081 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0082 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0083 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0084 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0085 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0086 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0087 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0088 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0089 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0094 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0095 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0096 | 0700056 | CF 15K OHM + -5% 1/16W |
| R0097 | 0700054 | CF 10K OHM + -5% 1/16W |
| R0098 | 0700036 | CF 470 OHM + -5% 1/16W |
| R0099 | 0700046 | CF 2.7K OHM + -5% 1/16W |
| R0100 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0101 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0102 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0103 | 0700056 | CF 15K OHM + -5% 1/16W |
| R0104 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0105 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0106 | 0700056 | CF 15K OHM + -5% 1/16W |
| R0107 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0108 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0109 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0110 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0111 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0112 | 0700039 | CF 820 OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R0113 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0172 | 0700061 | CF 33K OHM +-5% 1/16W |
| R0114 | 0700039 | CF 820 OHM +-5% 1/16W | R0173 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0115 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0174 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0116 | 0700039 | CF 820 OHM +-5% 1/16W | R0177 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0117 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0184 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0118 | 0114169 | CF 2.2K OHM +-5% 1/4W | R0185 | 0700037 | CF 560 OHM +-5% 1/16W |
| R0119 | 0700027 | CF 100 OHM +-5% 1/16W | R0186 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R0120 | 0114161 | CF 1K OHM +-5% 1/4W | R0187 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0121 | 0700027 | CF 100 OHM +-5% 1/16W | R0188 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0122 | 0114161 | CF 1K OHM +-5% 1/4W | R0189 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0123 | 0700027 | CF 100 OHM +-5% 1/16W | R0190 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0124 | 0700041 | CF 1K OHM +-5% 1/16W | R0191 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0125 | 0700067 | CF 100K OHM +-5% 1/16W | R0192 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0126 | 0700054 | CF 10K OHM +-5% 1/16W | R0194 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0127 | 0700046 | CF 2.7K OHM +-5% 1/16W | R0195 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0128 | 0700054 | CF 10K OHM +-5% 1/16W | R0196 | 0100065 | CF 1K OHM +-5% 1/8W |
| R0129 | 0700041 | CF 1K OHM +-5% 1/16W | R0197 | 0700058 | CF22K OHM +-5% 1/16W |
| R0130 | 0700067 | CF 100K OHM +-5% 1/16W | R0198 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0131 | 0700054 | CF 10K OHM +-5% 1/16W | R0199 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0132 | 0700046 | CF 2.7K OHM +-5% 1/16W | R0200 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0133 | 0700054 | CF 10K OHM +-5% 1/16W | R0204 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0135 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0205 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0136 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0206 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0137 | 0113703 | CF 12 OHM +-5% 1/2W | R0208 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0138 | 0700036 | CF 470 OHM +-5% 1/16W | R0209 | 0700058 | CF 22K OHM +-5% 1/16W |
| ⚠R0139 | 0119687 | FR 4.7 OHM +-5% 1/4W | R0210 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0140 | 0700041 | CF 1K OHM +-5% 1/16W | R0211 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0141 | 0700041 | CF 1K OHM +-5% 1/16W | R0212 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0142 | 0700041 | CF 1K OHM +-5% 1/16W | R0213 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0143 | 0700063 | CF 47K OHM +-5% 1/16W | R0214 | 0700057 | CF 18K OHM +-5% 1/16W |
| R0144 | 0700041 | CF 1K OHM +-5% 1/16W | R0215 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0145 | 0700051 | CF 5.6K OHM +-5% 1/16W | R0216 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| ⚠R0146 | 0150136 | VR 5K OHM-B | R0217 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0147 | 0100127 | CF 390K OHM +-5% 1/8W | R0218 | 0700027 | CF 100 OHM +-5% 1/16W |
| R0148 | 0100119 | CF 180K OHM +-5% 1/8W | R0219 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0149 | 0100121 | CF 220K OHM +-5% 1/8W | R0220 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0150 | 0700041 | CF 1K OHM +-5% 1/16W | R0221 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0151 | 0700058 | CF 22K OHM +-5% 1/16W | R0222 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0152 | 0700062 | CF 39K OHM +-5% 1/16W | R0224 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0154 | 0700041 | CF 1K OHM +-5% 1/16W | R0225 | 0700059 | CF 27K OHM +-5% 1/16W |
| R0155 | 0700041 | CF 1K OHM +-5% 1/16W | R0226 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0156 | 0700041 | CF 1K OHM +-5% 1/16W | R0229 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R0157 | 0700048 | CF 3.9K OHM +-5% 1/16W | R0230 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0158 | 0700054 | CF 10K OHM +-5% 1/16W | R0231 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0159 | 0700041 | CF 1K OHM +-5% 1/16W | R1101 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0160 | 0700041 | CF 1K OHM +-5% 1/16W | R1102 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0161 | 0700041 | CF 1K OHM +-5% 1/16W | R1103 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0163 | 0700041 | CF 1K OHM +-5% 1/16W | R1104 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0165 | 0114161 | CF 1K OHM +-5% 1/4W | R1226 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0166 | 0700058 | CF 22K OHM +-5% 1/16W | ⚠R1227 | 0150136 | VR 5K OHM-B |
| R0167 | 0700051 | CF 5.6K OHM +-5% 1/16W | R1228 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0168 | 0700057 | CF 18K OHM +-5% 1/16W | R1229 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0169 | 0700054 | CF 10K OHM +-5% 1/16W | R1230 | 0113684 | CF 2.2 OHM +-5% 1/2W |
| R0170 | 0700054 | CF 10K OHM +-5% 1/16W | R1231 | 0113774 | CF 10K OHM +-5% 1/2W |
| R0171 | 0700054 | CF 10K OHM +-5% 1/16W | R1232 | 0113701 | CF 10 OHM +-5% 1/2W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R1233 | 0100081 | CF 4.7K OHM +-5% 1/8W | R1371 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1234 | 0700056 | CF 15K OHM +-5% 1/16W | R1372 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1235 | 0700056 | CF 15K OHM +-5% 1/16W | R1373 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1276 | 0700053 | CF 8.2K OHM +-5% 1/16W | R1374 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1277 | 0700053 | CF 8.2K OHM +-5% 1/16W | R1375 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1278 | 0700066 | CF 82K OHM +-5% 1/16W | R1376 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1279 | 0700054 | CF 10K OHM +-5% 1/16W | R1377 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1280 | 0700037 | CF 560 OHM +-5% 1/16W | R1378 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1281 | 0700049 | CF 4.7K OHM +-5% 1/16W | R1379 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1282 | 0700054 | CF 10K OHM +-5% 1/16W | R1390 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R1283 | 0700041 | CF 1K OHM +-5% 1/16W | R1401 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R1284 | 0700054 | CF 10K OHM +-5% 1/16W | R1402 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1285 | 0700054 | CF 10K OHM +-5% 1/16W | R1403 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1286 | 0700049 | CF 4.7K OHM +-5% 1/16W | R1404 | 0700037 | CF 560 OHM +-5% 1/16W |
| R1291 | 0110359 | MF 3.9K OHM +-5% 3W | R1410 | 0700067 | CF 100K OHM +-5% 1/16W |
| R1293 | 0119722 | MF 1 OHM +-5% 1W | R1411 | 0700067 | CF 100K OHM +-5% 1/16W |
| R1301 | 0700063 | CF 47K OHM +-5% 1/16W | R1412 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1302 | 0110225 | MF 150 OHM +-5% 2W | R1413 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1303 | 0113696 | CF 6.8 OHM +-5% 1/2W | R1414 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1304 | 0113696 | CF 6.8 OHM +-5% 1/2W | R1415 | 0159922 | VR 5K OHM-B |
| R1306 | 0100077 | CF 3.3K OHM +-5% 1/8W | R1416 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1308 | 0700063 | CF 47K OHM +-5% 1/16W | R1432 | 0159921 | VR 20K OHM-B RV-9 |
| R1309 | 0700056 | CF 15K OHM +-5% 1/16W | R2001 | 0700061 | CF 33K OHM +-5% 1/16W |
| R1311 | 0700063 | CF 47K OHM +-5% 1/16W | R2002 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R1312 | 0110225 | MF 150 OHM +-5% 2W | R2003 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1313 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2004 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R1314 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2005 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1316 | 0100077 | CF 3.3K OHM +-5% 1/8W | R2006 | 0114131 | CF 100 OHM +-5% 1/4W |
| R1318 | 0700063 | CF 47K OHM +-5% 1/16W | R2007 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1319 | 0700058 | CF 22K OHM +-5% 1/16W | R2008 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1326 | 0700063 | CF 47K OHM +-5% 1/16W | R2009 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R1327 | 0110225 | MF 150 OHM +-5% 2W | R2010 | 0700034 | CF 330 OHM +-5% 1/16W |
| R1328 | 0113696 | CF 6.8 OHM +-5% 1/2W | R2011 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R1329 | 0113696 | CF 6.8 OHM +-5% 1/2W | R2012 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1331 | 0100077 | CF 3.3K OHM +-5% 1/8W | R2013 | 0700064 | CF 56K OHM +-5% 1/16W |
| R1336 | 0700063 | CF 47K OHM +-5% 1/16W | R2014 | 0700036 | CF 470 OHM +-5% 1/16W |
| R1337 | 0110233 | MF 330 OHM +-5% 2W | R2015 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1338 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2016 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1339 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2017 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1341 | 0100077 | CF 3.3K OHM +-5% 1/8W | R2018 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1351 | 0700063 | CF 47K OHM +-5% 1/16W | R2019 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R1352 | 0110225 | MF 150 OHM +-5% 2W | R2020 | 0150115 | VR 20K OHM-B |
| R1353 | 0113696 | CF 6.8 OHM + -5% 1/2W | R2021 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1354 | 0113696 | CF 6.8 OHM + -5% 1/2W | R2022 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R1356 | 0100077 | CF 3.3K OHM +-5% 1/8W | R2023 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1358 | 0700063 | CF 47K OHM +-5% 1/16W | R2024 | 0700064 | CF 56K OHM +-5% 1/16W |
| R1359 | 0700056 | CF 15K OHM +-5% 1/16W | R2025 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1361 | 0700063 | CF 47K OHM +-5% 1/16W | R2026 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1362 | 0110225 | MF 150 OHM +-5% 2W | R2027 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R1363 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2028 | 0700034 | CF 330 OHM +-5% 1/16W |
| R1364 | 0113692 | CF 4.7 OHM +-5% 1/2W | R2029 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1366 | 0100077 | CF 3.3K OHM +-5% 1/8W | R2030 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1368 | 0700063 | CF 47K OHM + -5% 1/16W | R2031 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1369 | 0700058 | CF 22K OHM + -5% 1/16W | R2032 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R1370 | 0700032 | CF 220 OHM + -5% 1/16W | R2033 | 0700041 | CF 1K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R2034 | 0700043 | CF 1.5K OHM +-5% 1/16W | R2164 | 0114161 | CF 1K OHM +-5% 1/4W |
| R2035 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2165 | 0100087 | CF 8.2K OHM +-5% 1/8W |
| R2036 | 0700045 | CF 2.2K OHM +-5% 1/16W | R2166 | 0187072 | CF 2K OHM +-5% 1/16W |
| R2037 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2167 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2101 | 0150136 | VR 5K OHM-B | R2168 | 0187068 | CF 1.3K OHM +-5% 1/16W |
| R2102 | 0150136 | VR 5K OHM-B | R2169 | 0187080 | CF 4.3K OHM +-5% 1/16W |
| R2103 | 0150136 | VR 5K OHM-B | R2170 | 0700055 | CF 12K OHM +-5% 1/16W |
| R2104 | 0150136 | VR 5K OHM-B | R2171 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2105 | 0150136 | VR 5K OHM-B | R2172 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2106 | 0150136 | VR 5K OHM-B | R2173 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2107 | 0150136 | VR 5K OHM-B | R2174 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2108 | 0150136 | VR 5K OHM-B | R2175 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2109 | 0150136 | VR 5K OHM-B | R2182 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2110 | 0150136 | VR 5K OHM-B | R2183 | 0150134 | VR 1K OHM-B |
| R2111 | 0150136 | VR 5K OHM-B | R2185 | 0150138 | VR 20K OHM-B |
| R2112 | 0150136 | VR 5K OHM-B | R2186 | 0150138 | VR 20K OHM-B |
| R2113 | 0150136 | VR 5K OHM-B | R2189 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2114 | 0150136 | VR 5K OHM-B | R2190 | 0700057 | CF 18K OHM +-5% 1/16W |
| R2115 | 0150136 | VR 5K OHM-B | R2193 | 0150136 | VR 5K OHM-B |
| R2116 | 0150136 | VR 5K OHM-B | R2194 | 0150136 | VR 5K OHM-B |
| R2117 | 0150136 | VR 5K OHM-B | R2195 | 0150136 | VR 5K OHM-B |
| R2118 | 0150136 | VR 5K OHM-B | R2196 | 0150136 | VR 5K OHM-B |
| R2119 | 0150136 | VR 5K OHM-B | R2197 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2120 | 0150136 | VR 5K OHM-B | R2199 | 0187104 | CF 43K OHM +-5% 1/16W |
| R2121 | 0150136 | VR 5K OHM-B | R2200 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2122 | 0150136 | VR 5K OHM-B | R2201 | 0187088 | CF 9.1K OHM +-5% 1/16W |
| R2123 | 0150136 | VR 5K OHM-B | R2205 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2124 | 0150136 | VR 5K OHM-B | R2206 | 0187098 | CF 24K OHM +-5% 1/16W |
| R2125 | 0150136 | VR 5K OHM-B | R2208 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2126 | 0150136 | VR 5K OHM-B | R2209 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2127 | 0150136 | VR 5K OHM-B | R2210 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2128 | 0150136 | VR 5K OHM-B | R2211 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2129 | 0150136 | VR 5K OHM-B | R2212 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2130 | 0150136 | VR 5K OHM-B | R2213 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2131 | 0150136 | VR 5K OHM-B | R2217 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2132 | 0150136 | VR 5K OHM-B | R2218 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2133 | 0150136 | VR 5K OHM-B | R2219 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2134 | 0150136 | VR 5K OHM-B | R2220 | 0114161 | CF 1K OHM +-5% 1/4W |
| R2135 | 0150136 | VR 5K OHM-B | R2221 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2136 | 0150136 | VR 5K OHM-B | R2222 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2137 | 0150136 | VR 5K OHM-B | R2223 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2138 | 0150136 | VR 5K OHM-B | R2224 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2139 | 0150136 | VR 5K OHM-B | R2225 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R2140 | 0150136 | VR 5K OHM-B | R2226 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2141 | 0150136 | VR 5K OHM-B | R2227 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2142 | 0150136 | VR 5K OHM-B | R2228 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2151 | 0700044 | CF 1.8K OHM +-5% 1/16W | R2229 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2152 | 0700044 | CF 1.8K OHM +-5% 1/16W | R2230 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2154 | 0187092 | CF 13K OHM +-5% 1/16W | R2231 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2155 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2232 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2156 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2233 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2157 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2234 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2158 | 0700054 | CF 10K OHM +-5% 1/16W | R2235 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2162 | 0700054 | CF 10K OHM +-5% 1/16W | R2236 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2163 | 0100121 | CF 220K OHM +-5% 1/8W | R2237 | 0700045 | CF 2.2K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R2238 | 0700066 | CF 82K OHM +-5% 1/16W | R2295 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2239 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2298 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2240 | 0700054 | CF 10K OHM +-5% 1/16W | R2299 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2241 | 0700054 | CF 10K OHM +-5% 1/16W | R2300 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2242 | 0700063 | CF 47K OHM +-5% 1/16W | R2301 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2243 | 0700041 | CF 1K OHM +-5% 1/16W | R2302 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2244 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2303 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2245 | 0700051 | CF 5.6K OHM +-5% 1/16W | R2304 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2246 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2305 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2247 | 0700063 | CF 47K OHM +-5% 1/16W | R2306 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2250 | 0700067 | CF 100K OHM +-5% 1/16W | R2307 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2251 | 0700058 | CF 22K OHM +-5% 1/16W | R2308 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2252 | 0700061 | CF 33K OHM +-5% 1/16W | R2309 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2253 | 0700042 | CF 1.2K OHM +-5% 1/16W | R2310 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2254 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2311 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2255 | 0700051 | CF 5.6K OHM +-5% 1/16W | R2312 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2256 | 0700042 | CF 1.2K OHM +-5% 1/16W | R2313 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2257 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2314 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2258 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2315 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2259 | 0700045 | CF 2.2K OHM +-5% 1/16W | R2316 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2260 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2317 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2261 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2318 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2262 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2319 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2263 | 0700054 | CF 10K OHM +-5% 1/16W | R2320 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2264 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2321 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2265 | 0700058 | CF 22K OHM +-5% 1/16W | R2322 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2266 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2323 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2267 | 0700053 | CF 8.2K OHM +-5% 1/16W | R2324 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2268 | 0700054 | CF 10K OHM +-5% 1/16W | R2325 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2269 | 0700054 | CF 10K OHM +-5% 1/16W | R2326 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2270 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2327 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2271 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2328 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2272 | 0700063 | CF 47K OHM +-5% 1/16W | R2329 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2273 | 0700067 | CF 100K OHM +-5% 1/16W | R2330 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2274 | 0700062 | CF 39K OHM +-5% 1/16W | R2331 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2275 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2332 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2276 | 0700051 | CF 5.6K OHM +-5% 1/16W | R2333 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2277 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2334 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2278 | 0700045 | CF 2.2K OHM +-5% 1/16W | R2335 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2279 | 0700041 | CF 1K OHM +-5% 1/16W | R2336 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2280 | 0700054 | CF 10K OHM +-5% 1/16W | R2337 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R2281 | 0700054 | CF 10K OHM +-5% 1/16W | R2338 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2282 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2339 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2283 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2340 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2284 | 0700054 | CF 10K OHM +-5% 1/16W | R2341 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2285 | 0700045 | CF 2.2K OHM +-5% 1/16W | R2342 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2286 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2343 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2287 | 0700066 | CF 82K OHM +-5% 1/16W | R2344 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2288 | 0700045 | CF 2.2K OHM +-5% 1/16W | R2345 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2289 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2346 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2290 | 0700054 | CF 10K OHM +-5% 1/16W | R2347 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2291 | 0700027 | CF 100 OHM +-5% 1/16W | R2348 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2292 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2349 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2293 | 0700046 | CF 2.7K OHM +-5% 1/16W | R2350 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2294 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2352 | 0700048 | CF 3.9K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R2353 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2419 | 0700065 | CF 68K OHM +-5% 1/16W |
| R2355 | 0700053 | CF 8.2K OHM +-5% 1/16W | R2420 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2356 | 0700041 | CF 1K OHM +-5% 1/16W | R2421 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2358 | 0700041 | CF 1K OHM +-5% 1/16W | R2422 | 0187090 | CF 11K OHM +-5% 1/16W |
| R2359 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2423 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2361 | 0700064 | CF 56K OHM +-5% 1/16W | R2424 | 0187110 | CF 75K OHM +-5% 1/16W |
| R2362 | 0700055 | CF 12K OHM +-5% 1/16W | R2425 | 0700038 | CF 680 OHM +-5% 1/16W |
| R2363 | 0700041 | CF 1K OHM +-5% 1/16W | R2426 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2364 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2427 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2365 | 0700059 | CF 27K OHM +-5% 1/16W | R2428 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2366 | 0700041 | CF 1K OHM +-5% 1/16W | R2429 | 0114177 | CF 4.7K OHM +-5% 1/4W |
| R2367 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2441 | 0100124 | CF 300K OHM +-5% 1/8W |
| R2368 | 0700041 | CF 1K OHM +-5% 1/16W | R2443 | 0700059 | CF 27K OHM +-5% 1/16W |
| R2369 | 0700051 | CF 5.6K OHM +-5% 1/16W | R2445 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2370 | 0700043 | CF 1.5K OHM +-5% 1/16W | R2446 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2371 | 0700048 | CF 3.9K OHM +-5% 1/16W | R2447 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2372 | 0150134 | VR 1K OHM-B | R2448 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2373 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2449 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2374 | 0700062 | CF 39K OHM +-5% 1/16W | R2450 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2375 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2451 | 0100081 | CF 4.7K OHM +-5% 1/8W |
| R2376 | 0700059 | CF 27K OHM +-5% 1/16W | R2454 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2377 | 0700063 | CF 47K OHM +-5% 1/16W | R2455 | 0700059 | CF 27K OHM +-5% 1/16W |
| R2378 | 0700065 | CF 68K OHM +-5% 1/16W | R2456 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2379 | 0700041 | CF 1K OHM +-5% 1/16W | R2466 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2380 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2470 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2381 | 0700041 | CF 1K OHM +-5% 1/16W | R2471 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2383 | 0700041 | CF 1K OHM +-5% 1/16W | R2473 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2384 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2474 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2388 | 0700041 | CF 1K OHM +-5% 1/16W | R2479 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2389 | 0700041 | CF 1K OHM +-5% 1/16W | R2480 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2390 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2481 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2391 | 0700062 | CF 39K OHM +-5% 1/16W | R2482 | 0100121 | CF 220K OHM +-5% 1/8W |
| R2392 | 0700041 | CF 1K OHM +-5% 1/16W | R2483 | 0700039 | CF 820 OHM +-5% 1/16W |
| R2393 | 0700042 | CF 1.2K OHM +-5% 1/16W | R2501 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2394 | 0187082 | CF 5.1K OHM +-5% 1/16W | R2502 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R2396 | 0700041 | CF 1K OHM +-5% 1/16W | R2503 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2397 | 0700052 | CF 6.8K OHM +-5% 1/16W | R2504 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2398 | 0700054 | CF 10K OHM +-5% 1/16W | R2505 | 0187106 | CF 51K OHM +-5% 1/16W |
| R2399 | 0700043 | CF 1.5K OHM +-5% 1/16W | R2506 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2400 | 0700049 | CF 4.7K OHM +-5% 1/16W | R2510 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2401 | 0700041 | CF 1K OHM +-5% 1/16W | R2517 | 0100075 | CF 2.7K OHM +-5% 1/8W |
| R2402 | 0700041 | CF 1K OHM +-5% 1/16W | R2518 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2403 | 0700066 | CF 82K OHM +-5% 1/16W | R2519 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2404 | 0700056 | CF 15K OHM +-5% 1/16W | R2520 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2405 | 0700054 | CF 10K OHM +-5% 1/16W | R2521 | 0119514 | FR 10 OHM +-5% 1/4W |
| R2406 | 0700047 | CF 3.3K OHM +-5% 1/16W | R2522 | 0119514 | FR 10 OHM +-5% 1/4W |
| R2407 | 0700047 | CF 3.3K OHM +-5% 1/16W | R3001 | 0700027 | CF 100 OHM +-5% 1/16W |
| R2408 | 0700041 | CF 1K OHM +-5% 1/16W | R3002 | 0700027 | CF 100 OHM +-5% 1/16W |
| R2409 | 0700041 | CF 1K OHM +-5% 1/16W | R3020 | 0700034 | CF 330 OHM +-5% 1/16W |
| R2410 | 0700066 | CF 82K OHM +-5% 1/16W | R3022 | 0100047 | CF 180 OHM +-5% 1/8W |
| R2411 | 0700056 | CF 15K OHM +-5% 1/16W | R3025 | 0187038 | CF 75 OHM +-5% 1/16W |
| R2412 | 0700064 | CF 56K OHM +-5% 1/16W | R3026 | 0187038 | CF 75 OHM +-5% 1/16W |
| R2413 | 0700064 | CF 56K OHM +-5% 1/16W | R3033 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2414 | 0700059 | CF 27K OHM +-5% 1/16W | R3035 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2417 | 0700051 | CF 5.6K OHM +-5% 1/16W | R3036 | 0700041 | CF 1K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R3037 | 0700067 | CF 100K OHM +-5% 1/16W | R3133 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3038 | 0700026 | CF 82 OHM +-5% 1/16W | R3134 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3039 | 0700067 | CF 100K OHM +-5% 1/16W | R3135 | 0700027 | CF 100 OHM +-5% 1/16W |
| R304 | 0700067 | CF 100K OHM +-5% 1/16W | R3139 | 0700041 | CF 1K OHM +-5% 1/16W |
| R305 | 0700058 | CF 22K OHM +-5% 1/16W | R314 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R306 | 0700055 | CF 12K OHM +-5% 1/16W | ⚠R3140 | 0150137 | VR 10K OHM-B |
| R3063 | 0700027 | CF 100 OHM +-5% 1/16W | R3141 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3065 | 0700039 | CF 820 OHM +-5% 1/16W | R3142 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3066 | 0700041 | CF 1K OHM +-5% 1/16W | ⚠R3143 | 0150137 | VR 10K OHM-B |
| R3068 | 0700041 | CF 1K OHM +-5% 1/16W | R3144 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3069 | 0700041 | CF 1K OHM +-5% 1/16W | R3145 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R307 | 0700058 | CF 22K OHM +-5% 1/16W | ⚠R3146 | 0150137 | VR 10K OHM-B |
| R308 | 0700064 | CF 56K OHM +-5% 1/16W | R3147 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R3081 | 0700041 | CF 1K OHM +-5% 1/16W | R3148 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R3082 | 0700041 | CF 1K OHM +-5% 1/16W | R3149 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3083 | 0700027 | CF 100 OHM +-5% 1/16W | R315 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R3084 | 0700041 | CF 1K OHM +-5% 1/16W | R3150 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3085 | 0700041 | CF 1K OHM +-5% 1/16W | R3151 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3086 | 0700027 | CF 100 OHM +-5% 1/16W | R3152 | 0700032 | CF 220 OHM +-5% 1/16W |
| R309 | 0700048 | CF 3.9K OHM +-5% 1/16W | R3153 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3094 | 0700039 | CF 820 OHM +-5% 1/16W | R3154 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3095 | 0700027 | CF 100 OHM +-5% 1/16W | R3155 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3096 | 0700027 | CF 100 OHM +-5% 1/16W | R3156 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3097 | 0700054 | CF 10K OHM +-5% 1/16W | R3157 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3098 | 0700054 | CF 10K OHM +-5% 1/16W | R3158 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3099 | 0700054 | CF 10K OHM +-5% 1/16W | R316 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R310 | 0700051 | CF 5.6K OHM +-5% 1/16W | R3160 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3100 | 0700054 | CF 10K OHM +-5% 1/16W | R3166 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3101 | 0700027 | CF 100 OHM +-5% 1/16W | R3167 | 0100045 | CF 150 OHM +-5% 1/8W |
| R3103 | 0700031 | CF 180 OHM +-5% 1/16W | R3168 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3104 | 0700063 | CF 47K OHM +-5% 1/16W | R3169 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3105 | 0700063 | CF 47K OHM +-5% 1/16W | R317 | 0700039 | CF 820 OHM +-5% 1/16W |
| R3106 | 0700039 | CF 820 OHM +-5% 1/16W | R3170 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3107 | 0700041 | CF 1K OHM +-5% 1/16W | R3171 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3108 | 0700041 | CF 1K OHM +-5% 1/16W | R3172 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3109 | 0700038 | CF 680 OHM +-5% 1/16W | R3173 | 0700027 | CF 100 OHM +-5% 1/16W |
| R311 | 0700053 | CF 8.2K OHM +-5% 1/16W | R3174 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3111 | 0700027 | CF 100 OHM +-5% 1/16W | R3175 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3112 | 0187038 | CF 75 OHM +-5% 1/16W | R3176 | 0150137 | VR 10K OHM-B |
| R3113 | 0700041 | CF 1K OHM +-5% 1/16W | R3179 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R3114 | 0700067 | CF 100K OHM +-5% 1/16W | R318 | 0100117 | CF 150K OHM +-5% 1/8W |
| R3115 | 0700041 | CF 1K OHM +-5% 1/16W | R3180 | 0700038 | CF 680 OHM +-5% 1/16W |
| R3116 | 0700067 | CF 100K OHM +-5% 1/16W | R3181 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3117 | 0187038 | CF 75 OHM +-5% 1/16W | R319 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3118 | 0700067 | CF 100K OHM +-5% 1/16W | R320 | 0100123 | CF 270K OHM +-5% 1/8W |
| R3119. | 0700067 | CF 100K OHM +-5% 1/16W | R321 | 0700054 | CF 10K OHM +-5% 1/16W |
| R312 | 0700055 | CF 12K OHM +-5% 1/16W | R322 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3125 | 0700027 | CF 100 OHM +-5% 1/16W | R323 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3126 | 0700034 | CF 330 OHM +-5% 1/16W | R324 | 0700057 | CF 18K OHM +-5% 1/16W |
| R3127 | 0700041 | CF 1K OHM +-5% 1/16W | R325 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3129 | 0700027 | CF 100 OHM +-5% 1/16W | R326 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| ⚠R313 | 0150136 | VR 5K OHM-B | R327 | 0700039 | CF 820 OHM +-5% 1/16W |
| R3130 | 0700047 | CF 3.3K OHM +-5% 1/16W | R328 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R3131 | 0700054 | CF 10K OHM +-5% 1/16W | R329 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R3132 | 0700054 | CF 10K OHM +-5% 1/16W | R3301 | 0700041 | CF 1K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R3302 | 0700041 | CF 1K OHM +-5% 1/16W | R347 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3303 | 0700041 | CF 1K OHM +-5% 1/16W | ⚠R348 | 0150137 | VR 10K OHM-B |
| R3305 | 0700058 | CF 22K OHM +-5% 1/16W | R349 | 0700059 | CF 27K OHM +-5% 1/16W |
| R3306 | 0700058 | CF 22K OHM +-5% 1/16W | R350 | 0700059 | CF 27K OHM +-5% 1/16W |
| R3307 | 0700058 | CF 22K OHM +-5% 1/16W | R3505 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3308 | 0700058 | CF 22K OHM +-5% 1/16W | R351 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3309 | 0700058 | CF 22K OHM +-5% 1/16W | R352 | 0700058 | CF 22K OHM +-5% 1/16W |
| R331 | 0700038 | CF 680 OHM +-5% 1/16W | R353 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3310 | 0700041 | CF 1K OHM +-5% 1/16W | R354 | 0700067 | CF 100K OHM +-5% 1/16W |
| R3311 | 0700041 | CF 1K OHM +-5% 1/16W | R355 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3312 | 0700041 | CF 1K OHM +-5% 1/16W | R356 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R3313 | 0700041 | CF 1K OHM +-5% 1/16W | R358 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3314 | 0700041 | CF 1K OHM +-5% 1/16W | R359 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3315 | 0700067 | CF 100K OHM +-5% 1/16W | R361 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R3316 | 0700063 | CF 47K OHM +-5% 1/16W | R362 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3317 | 0700037 | CF 560 OHM +-5% 1/16W | R363 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3318 | 0700041 | CF 1K OHM +-5% 1/16W | R364 | 0100053 | CF 330 OHM +-5% 1/8W |
| R3319 | 0187066 | CF 1.1K OHM +-5% 1/16W | R365 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R332 | 0700038 | CF 680 OHM +-5% 1/16W | R366 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3320 | 0700063 | CF 47K OHM +-5% 1/16W | R367 | 0100053 | CF 330 OHM +-5% 1/8W |
| R3321 | 0700064 | CF 56K OHM +-5% 1/16W | R368 | 0700025 | CF 68 OHM +-5% 1/16W |
| R3322 | 0700045 | CF 2.2K OHM +-5% 1/16W | R371 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3325 | 0700027 | CF 100 OHM +-5% 1/16W | R372 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3326 | 0700036 | CF 470 OHM +-5% 1/16W | R373 | 0700028 | CF 120 OHM +-5% 1/16W |
| R3327 | 0700036 | CF 470 OHM +-5% 1/16W | R374 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3329 | 0700027 | CF 100 OHM +-5% 1/16W | R375 | 0700058 | CF 22K OHM +-5% 1/16W |
| R333 | 0700042 | CF 1.2K OHM +-5% 1/16W | R378 | 0700034 | CF 330 OHM +-5% 1/16W |
| R3330 | 0700037 | CF 560 OHM +-5% 1/16W | R379 | 0700033 | CF 270 OHM +-5% 1/16W |
| R3331 | 0700046 | CF 2.7K OHM +-5% 1/16W | R381 | 0700054 | CF 10K OHM +-5% 1/16W |
| R334 | 0700061 | CF 33K OHM +-5% 1/16W | R382 | 0700067 | CF 100K OHM +-5% 1/16W |
| R3342 | 0700058 | CF 22K OHM +-5% 1/16W | R383 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3343 | 0700058 | CF 22K OHM +-5% 1/16W | R384 | 0700028 | CF 120 OHM +-5% 1/16W |
| R3344 | 0700042 | CF 1.2K OHM +-5% 1/16W | R385 | 0700022 | CF 39 OHM +-5% 1/16W |
| R3345 | 0700063 | CF 47K OHM +-5% 1/16W | R386 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3346 | 0700062 | CF 39K OHM +-5% 1/16W | R387 | 0700037 | CF 560 OHM +-5% 1/16W |
| R3347 | 0700058 | CF 22K OHM +-5% 1/16W | R388 | 0100053 | CF 330 OHM +-5% 1/8W |
| R3348 | 0700061 | CF 33K OHM +-5% 1/16W | R389 | 0700025 | CF 68 OHM +-5% 1/16W |
| R3349 | 0700041 | CF 1K OHM +-5% 1/16W | R392 | 0700037 | CF 560 OHM +-5% 1/16W |
| R335 | 0700058 | CF 22K OHM +-5% 1/16W | R396 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3350 | 0700061 | CF 33K OHM +-5% 1/16W | R397 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R3351 | 0700058 | CF 22K OHM +-5% 1/16W | R398 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3352 | 0700041 | CF 1K OHM +-5% 1/16W | R399 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3353 | 0700027 | CF 100 OHM +-5% 1/16W | R4001 | 0110311 | MF 39 OHM +-5% 3W |
| R3354 | 0700027 | CF 100 OHM +-5% 1/16W | R4003 | 0114161 | CF 1K OHM +-5% 1/4W |
| R336 | 0700027 | CF 100 OHM +-5% 1/16W | R4004 | 0114145 | CF 390 OHM +-5% 1/4W |
| R337 | 0700044 | CF 1.8K OHM +-5% 1/16W | R4005 | 0114145 | CF 390 OHM +-5% 1/4W |
| R338 | 0700063 | CF 47K OHM +-5% 1/16W | R4010 | 0700041 | CF 1K OHM +-5% 1/16W |
| R339 | 0100055 | CF 390 OHM +-5% 1/8W | R4011 | 0700054 | CF 10K OHM +-5% 1/16W |
| R340 | 0700041 | CF 1K OHM +-5% 1/16W | R4012 | 0700062 | CF 39K OHM +-5% 1/16W |
| R341 | 0700039 | CF 820 OHM +-5% 1/16W | R4014 | 0700034 | CF 330 OHM +-5% 1/16W |
| R342 | 0700061 | CF 33K OHM +-5% 1/16W | R4015 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R343 | 0700039 | CF 820 OHM +-5% 1/16W | R4016 | 0700041 | CF 1K OHM +-5% 1/16W |
| R344 | 0700041 | CF 1K OHM +-5% 1/16W | R4017 | 0700041 | CF 1K OHM +-5% 1/16W |
| R345 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4018 | 0700067 | CF 100K OHM +-5% 1/16W |
| R346 | 0700054 | CF 10K OHM +-5% 1/16W | R4019 | 0700051 | CF 5.6K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R4020 | 0700041 | CF 1K OHM +-5% 1/16W | R4097 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4021 | 0700041 | CF 1K OHM +-5% 1/16W | R4098 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4022 | 0700051 | CF 5.6K OHM +-5% 1/16W | ⚠R4099 | 01195051 | FR 2.2 OHM +-5% 1/4W |
| R4023 | 0700054 | CF 10K OHM +-5% 1/16W | ⚠R4100 | 01195051 | FR 2.2 OHM +-5% 1/4W |
| R4024 | 0700062 | CF 39K OHM +-5% 1/16W | R4101 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4026 | 0700034 | CF 330 OHM +-5% 1/16W | R4103 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4027 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4104 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4028 | 0700041 | CF 1K OHM +-5% 1/16W | R4105 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4029 | 0700041 | CF 1K OHM +-5% 1/16W | R4106 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4030 | 0700067 | CF 100K OHM +-5% 1/16W | R4107 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4031 | 0700041 | CF 1K OHM +-5% 1/16W | R4109 | 0114161 | CF 1K OHM +-5% 1/4W |
| R4032 | 0114139 | CF 220 OHM +-5% 1/4W | R4116 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4034 | 0700063 | CF 47K OHM +-5% 1/16W | R4118 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4035 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4119 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4036 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4120 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4037 | 0700054 | CF 10K OHM +-5% 1/16W | R4121 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4039 | 0700065 | CF 68K OHM +-5% 1/16W | R4122 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4041 | 0700065 | CF 68K OHM +-5% 1/16W | R4124 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4043 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4125 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4045 | 0700054 | CF 10K OHM +-5% 1/16W | R4126 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4046 | 0700055 | CF 12K OHM +-5% 1/16W | R4127 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4048 | 0700043 | CF 1.5K OHM +-5% 1/16W | R4134 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4049 | 0700038 | CF 680 OHM +-5% 1/16W | R4135 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4050 | 0700037 | CF 560 OHM +-5% 1/16W | R4136 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4051 | 0100121 | CF 220K OHM +-5% 1/8W | R4137 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4052 | 0100121 | CF 220K OHM +-5% 1/8W | R4138 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R4053 | 0700038 | CF 680 OHM +-5% 1/16W | R4139 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4054 | 0700037 | CF 560 OHM +-5% 1/16W | R4140 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4055 | 0700043 | CF 1.5K OHM +-5% 1/16W | R4141 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4057 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4142 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R4058 | 0700054 | CF 10K OHM +-5% 1/16W | R4143 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4059 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4144 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4066 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4146 | 0114139 | CF 220 OHM +-5% 1/4W |
| R4067 | 0700067 | CF 100K OHM +-5% 1/16W | R4147 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4068 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4148 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4069 | 0700054 | CF 10K OHM +-5% 1/16W | R4149 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4070 | 0700067 | CF 100K OHM +-5% 1/16W | R4150 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4073 | 0100061 | CF 680 OHM +-5% 1/8W | R4151 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4074 | 0700065 | CF 68K OHM +-5% 1/16W | R4152 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4076 | 0700063 | CF 47K OHM +-5% 1/16W | R4153 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4077 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4154 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R4079 | 0114139 | CF 220 OHM +-5% 1/4W | R4155 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4080 | 0700061 | CF 33K OHM +-5% 1/16W | R4404 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4081 | 0700054 | CF 10K OHM +-5% 1/16W | R4408 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4082 | 0700054 | CF 10K OHM +-5% 1/16W | R4410 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4083 | 0700041 | CF 1K OHM +-5% 1/16W | R4411 | 0700065 | CF 68K OHM +-5% 1/16W |
| ⚠R4084 | 01195051 | FR 2.2 OHM +-5% 1/4W | R4415 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| ⚠R4085 | 01195051 | FR 2.2 OHM +-5% 1/4W | R4416 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4086 | 0114143 | CF 330 OHM +-5% 1/4W | R4419 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4089 | 0700058 | CF 22K OHM +-5% 1/16W | R4420 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4090 | 0700054 | CF 10K OHM +-5% 1/16W | R4421 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4093 | 0100049 | CF 220 OHM +-5% 1/8W | R4422 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4094 | 0114143 | CF 330 OHM +-5% 1/4W | R4423 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4095 | 0700061 | CF 33K OHM +-5% 1/16W | R4424 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4096 | 0700054 | CF 10K OHM +-5% 1/16W | R4425 | 0100121 | CF 220K OHM +-5% 1/8W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R4426 | 0100121 | CF 220K OHM +-5% 1/8W | R4485 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4427 | 0100121 | CF 220K OHM +-5% 1/8W | R4486 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R4428 | 0100121 | CF 220K OHM +-5% 1/8W | ⚠R4487 | 0119514 | FR 10 OHM +-5% 1/4W |
| R4431 | 0700064 | CF 56K OHM +-5% 1/16W | R4488 | 0700031 | CF 180 OHM +-5% 1/16W |
| R4432 | 0700064 | CF 56K OHM +-5% 1/16W | R4489 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R4433 | 0700067 | CF 100K OHM +-5% 1/16W | R4490 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4434 | 0700067 | CF 100K OHM +-5% 1/16W | R4491 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4435 | 0700067 | CF 100K OHM +-5% 1/16W | R4492 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4436 | 0700067 | CF 100K OHM +-5% 1/16W | R4493 | 0187100 | CF 30K OHM +-5% 1/16W |
| R4437 | 0700067 | CF 100K OHM +-5% 1/16W | R4494 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4438 | 0700067 | CF 100K OHM +-5% 1/16W | R4495 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4439 | 0700067 | CF 100K OHM +-5% 1/16W | R4496 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4440 | 0700067 | CF 100K OHM +-5% 1/16W | R4497 | 0100125 | CF 330K OHM +-5% 1/8W |
| R4441 | 0700067 | CF 100K OHM +-5% 1/16W | R4498 | 0100127 | CF 390K OHM +-5% 1/8W |
| R4442 | 0700067 | CF 100K OHM +-5% 1/16W | R4499 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4443 | 0700067 | CF 100K OHM +-5% 1/16W | R4500 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4444 | 0700063 | CF 47K OHM +-5% 1/16W | R4501 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4445 | 0700063 | CF 47K OHM +-5% 1/16W | R4502 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4446 | 0700067 | CF 100K OHM +-5% 1/16W | R4503 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4447 | 0700067 | CF 100K OHM +-5% 1/16W | R4504 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4448 | 0700063 | CF 47K OHM +-5% 1/16W | R4505 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4449 | 0700063 | CF 47K OHM +-5% 1/16W | R4506 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4450 | 0700067 | CF 100K OHM +-5% 1/16W | R4507 | 0100059 | CF 560 OHM +-5% 1/8W |
| R4451 | 0700067 | CF 100K OHM +-5% 1/16W | R4508 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4452 | 0700054 | CF 10K OHM +-5% 1/16W | R4509 | 0100123 | CF 270K OHM +-5% 1/8W |
| R4454 | 0700041 | CF 1K OHM +-5% 1/16W | R4510 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4455 | 0700041 | CF 1K OHM +-5% 1/16W | R4511 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4456 | 0700067 | CF 100K OHM +-5% 1/16W | R4512 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4457 | 0700067 | CF 100K OHM +-5% 1/16W | R4513 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4458 | 0700027 | CF 100 OHM +-5% 1/16W | R4514 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4460 | 0700027 | CF 100 OHM +-5% 1/16W | R4515 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4461 | 0700054 | CF 10K OHM +-5% 1/16W | R4516 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4462 | 0700064 | CF 56K OHM +-5% 1/16W | R4517 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4463 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4518 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4464 | 0700063 | CF 47K OHM +-5% 1/16W | R4521 | 0700034 | CF 330 OHM +-5% 1/16W |
| R4465 | 0151717 | VR 5K OHM-B R-8 | R4522 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4466 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4523 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4467 | 0700051 | CF 5.6K OHM +-5% 1/16W | R4524 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4468 | 0700051 | CF 5.6K OHM +-5% 1/16W | R4525 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4469 | 0700067 | CF 100K OHM +-5% 1/16W | R4526 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4470 | 0700067 | CF 100K OHM +-5% 1/16W | R4527 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4471 | 0113725 | CF 100 OHM +-5% 1/2W | R4528 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4472 | 0700027 | CF 100 OHM +-5% 1/16W | R4529 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4473 | 0700062 | CF 39K OHM +-5% 1/16W | R4530 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4474 | 0700058 | CF 22K OHM +-5% 1/16W | R4531 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4475 | 0700054 | CF 10K OHM +-5% 1/16W | R4532 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4476 | 0187096 | CF 20K OHM +-5% 1/16W | R4533 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4477 | 0187096 | CF 20K OHM +-5% 1/16W | R4534 | 0100059 | CF 560 OHM +-5% 1/8W |
| R4478 | 0700054 | CF 10K OHM +-5% 1/16W | R4535 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4479 | 0700053 | CF 8.2K OHM +-5% 1/16W | R4536 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4480 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4537 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4481 | 0700053 | CF 8.2K OHM +-5% 1/16W | R4601 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4482 | 0700056 | CF 15K OHM +-5% 1/16W | R4602 | 0179536 | MG 1M OHM +-5% 1/8W |
| R4483 | 0700067 | CF 100K OHM +-5% 1/16W | R4603 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4484 | 0700041 | CF 1K OHM +-5% 1/16W | R4604 | 0700027 | CF 100 OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R4605 | 0700067 | CF 100K OHM +-5% 1/16W | R4664 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4606 | 0700063 | CF 47K OHM +-5% 1/16W | R4665 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4607 | 0700067 | CF 100K OHM +-5% 1/16W | R4666 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4608 | 0700053 | CF 8.2K OHM +-5% 1/16W | R4667 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4609 | 0700056 | CF 15K OHM +-5% 1/16W | R4668 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4610 | 0150284 | VR 2K OHM-B | R4669 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4611 | 0700067 | CF 100K OHM +-5% 1/16W | R4670 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4612 | 0700067 | CF 100K OHM +-5% 1/16W | R4671 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4613 | 0700067 | CF 100K OHM +-5% 1/16W | R4672 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4614 | 0700063 | CF 47K OHM +-5% 1/16W | R4673 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4615 | 0187086 | CF 7.5K OHM +-5% 1/16W | R4674 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4616 | 0700054 | CF 10K OHM +-5% 1/16W | R4675 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4617 | 0700054 | CF 10K OHM +-5% 1/16W | R4676 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4618 | 0100129 | CF 470K OHM +-5% 1/8W | R4677 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4619 | 0100129 | CF 470K OHM +-5% 1/8W | R4678 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4620 | 0700063 | CF 47K OHM +-5% 1/16W | R4679 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4621 | 0187086 | CF 7.5K OHM +-5% 1/16W | R4680 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4622 | 0700056 | CF 15K OHM +-5% 1/16W | R4681 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R4623 | 0700056 | CF 15K OHM +-5% 1/16W | R502 | 0700032 | CF 220 OHM +-5% 1/16W |
| R4624 | 0700041 | CF 1K OHM +-5% 1/16W | R503 | 0700037 | CF 560 OHM +-5% 1/16W |
| R4625 | 0700041 | CF 1K OHM +-5% 1/16W | R504 | 0700036 | CF 470 OHM +-5% 1/16W |
| R4626 | 0700054 | CF 10K OHM +-5% 1/16W | R505 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4627 | 0700054 | CF 10K OHM +-5% 1/16W | R506 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4628 | 0700051 | RCF 5.6K OHM +-5% 1/16W | R507 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4629 | 0700051 | CF 5.6K OHM +-5% 1/16W | R508 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R4630 | 0700041 | CF 1K OHM +-5% 1/16W | R509 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4633 | 0700027 | CF 100 OHM +-5% 1/16W | R510 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4634 | 0700041 | CF 1K OHM +-5% 1/16W | R511 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4635 | 0700041 | CF 1K OHM +-5% 1/16W | R512 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4636 | 0700067 | CF 100K OHM +-5% 1/16W | R513 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4638 | 0179536 | MG 1M OHM +-5% 1/8W | R514 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4639 | 0179536 | MG 1M OHM +-5% 1/8W | R515 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4640 | 0700041 | CF 1K OHM +-5% 1/16W | R516 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4641 | 0700041 | CF 1K OHM +-5% 1/16W | R517 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4642 | 0700041 | CF 1K OHM +-5% 1/16W | R518 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4644 | 0700041 | CF 1K OHM +-5% 1/16W | R519 | 0100125 | CF 330K OHM +-5% 1/8W |
| R4645 | 0700045 | CF 2.2K OHM +-5% 1/16W | R520 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4646 | 0700054 | CF 10K OHM +-5% 1/16W | R521 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4647 | 0700054 | CF 10K OHM +-5% 1/16W | R522 | 0700055 | CF 12K OHM +-5% 1/16W |
| R4648 | 0700054 | CF 10K OHM +-5% 1/16W | R523 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4649 | 0700054 | CF 10K OHM +-5% 1/16W | R526 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4650 | 0700051 | CF 5.6K OHM +-5% 1/16W | R527 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4651 | 0700041 | CF 1K OHM +-5% 1/16W | R528 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4652 | 0700041 | CF 1K OHM +-5% 1/16W | R529 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4653 | 0700041 | CF 1K OHM +-5% 1/16W | R530 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4654 | 0100059 | CF 560 OHM +-5% 1/8W | R536 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4655 | 0700041 | CF 1K OHM +-5% 1/16W | R537 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4656 | 0700045 | CF 2.2K OHM +-5% 1/16W | R538 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4657 | 0700067 | CF 100K OHM +-5% 1/16W | R539 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R4658 | 0700067 | CF 100K OHM +-5% 1/16W | R540 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4659 | 0700063 | CF 47K OHM +-5% 1/16W | R542 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4660 | 0700063 | CF 47K OHM +-5% 1/16W | R543 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4661 | 0700063 | CF 47K OHM +-5% 1/16W | R544 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4662 | 0700063 | CF 47K OHM +-5% 1/16W | R545 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4663 | 0700027 | CF 100 OHM +-5% 1/16W | R546 | 0700064 | CF 56K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R547 | 0700064 | CF 56K OHM +-5% 1/16W |
| R548 | 0100133 | CF 680K OHM +-5% 1/8W |
| R549 | 0700065 | CF 68K OHM +-5% 1/16W |
| R550 | 0700065 | CF 68K OHM +-5% 1/16W |
| R551 | 0700064 | CF 56K OHM +-5% 1/16W |
| R601 | 0700041 | CF 1K OHM +-5% 1/16W |
| R602 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R603 | 0100121 | CF 220K OHM +-5% 1/8W |
| R604 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R605 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R606 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R607 | 0700059 | CF 27K OHM +-5% 1/16W |
| R608 | 0100121 | CF 220K OHM +-5% 1/8W |
| R609 | 0700061 | CF 33K OHM +-5% 1/16W |
| R610 | 0700054 | CF 10K OHM +-5% 1/16W |
| R611 | 0700057 | CF 18K OHM +-5% 1/16W |
| R612 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R613 | 0700027 | CF 100 OHM +-5% 1/16W |
| R614 | 0700027 | CF 100 OHM +-5% 1/16W |
| R651 | 0113725 | CF 100 OHM +-5% 1/2W |
| R652 | 0113725 | CF 100 OHM +-5% 1/2W |
| R653 | 0113725 | CF 100 OHM +-5% 1/2W |
| R654 | 0700027 | CF 100 OHM +-5% 1/16W |
| R656 | 0100053 | CF 330 OHM +-5% 1/8W |
| R658 | 0700041 | CF 1K OHM +-5% 1/16W |
| R659 | 0700041 | CF 1K OHM +-5% 1/16W |
| R660 | 0187108 | CF 62K OHM +-5% 1/16W |
| R661 | 0700054 | CF 10K OHM +-5% 1/16W |
| ⚠R662 | 0150138 | VR 20K OHM-B |
| R663 | 0187110 | CF 75K OHM +-5% 1/16W |
| R664 | 0700038 | CF 680 OHM +-5% 1/16W |
| R665 | 0119722 | MF 1 OHM +-5% 1W |
| R666 | 0119722 | MF 1 OHM +-5% 1W |
| R667 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R668 | 0700061 | CF 33K OHM +-5% 1/16W |
| R669 | 0700064 | CF 56K OHM +-5% 1/16W |
| R670 | 0700065 | CF 68K OHM +-5% 1/16W |
| R671 | 0113766 | CF 4.7K OHM +-5% 1/2W |
| R672 | 0110129 | MF 220 OHM +-5% 1W |
| R673 | 0700061 | CF 33K OHM +-5% 1/16W |
| R674 | 0114135 | CF 150 OHM +-5% 1/4W |
| R7001 | 0700039 | CF 820 OHM +-5% 1/16W |
| R7002 | 0100115 | CF 120K OHM +-5% 1/8W |
| R7003 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7004 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R7005 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7006 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7007 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R7008 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R7009 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R7010 | 0700024 | CF 56 OHM +-5% 1/16W |
| R7011 | 0700033 | CF 270 OHM +-5% 1/16W |
| R7012 | 0114137 | CF 180 OHM +-5% 1/4W |
| R7014 | 0114147 | CF 470 OHM +-5% 1/4W |
| R7019 | 0700037 | CF 560 OHM +-5% 1/16W |
| R7020 | 0110105 | MF 22 OHM +-5% 1W |
| R7021 | 0100027 | CF 27 OHM +-5% 1/8W |
| R707 | 0700023 | CF 47 OHM +-5% 1/16W |
| ⚠R708 | 0110367 | MF 8.2K OHM +-5% 3W |
| R709 | 0113770 | CF 6.8K OHM +-5% 1/2W |
| ⚠R710 | 0110369 | MF 10K OHM +-5% 3W |
| R711 | 0119688 | MF 0.22 OHM +-5% 1W |
| R712 | 0100039 | CF 82 OHM +-5% 1/8W |
| R719 | 0113789 | CF 39K OHM +-5% 1/2W |
| R720 | 0700054 | CF 10K OHM +-5% 1/16W |
| R721 | 0113793 | CF 56K OHM +-5% 1/2W |
| R722 | 0100091 | CF 12K OHM +-5% 1/8W |
| R723 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R724 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R726 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R727 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R728 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R729 | 0113727 | CF 120 OHM +-5% 1/2W |
| R732 | 0110129 | MF 220 OHM +-5% 1W |
| ⚠R733 | 01195121 | FR 1 OHM +-5% 1/4W |
| ⚠R734 | 0119514 | FR 10 OHM +-5% 1/4W |
| R739 | 0110145 | MF 1K OHM +-5% 1W |
| ⚠R742 | 0700063 | CF 47K OHM +-5% 1/16W |
| R744 | 0100127 | CF 390K OHM +-5% 1/8W |
| R750 | 0100075 | CF 2.7K OHM +-5% 1/8W |
| R751 | 0113719 | CF 56 OHM +-5% 1/2W |
| R753 | 0110359 | MF 3.9K OHM +-5% 3W |
| R754 | 0113766 | CF 4.7K OHM +-5% 1/2W |
| R755 | 0110359 | MF 3.9K OHM +-5% 3W |
| R759 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R760 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R761 | 0700057 | CF 18K OHM +-5% 1/16W |
| R762 | 0700056 | CF 15K OHM +-5% 1/16W |
| ⚠R763 | 0150137 | VR 10K OHM-B |
| R764 | 0700038 | CF 680 OHM +-5% 1/16W |
| R765 | 0700057 | CF 18K OHM +-5% 1/16W |
| R766 | 0700039 | CF 820 OHM +-5% 1/16W |
| R767 | 0700054 | CF 10K OHM +-5% 1/16W |
| R768 | 0114149 | CF 560 OHM +-5% 1/4W |
| R769 | 0700054 | CF 10K OHM +-5% 1/16W |
| R770 | 0100117 | CF 150K OHM +-5% 1/8W |
| R771 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R772 | 0100049 | CF 220 OHM +-5% 1/8W |
| R773 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R779 | 0100065 | CF 1K OHM +-5% 1/8W |
| R780 | 0100041 | CF 100 OHM +-5% 1/8W |
| R781 | 0110279 | MF 27K OHM +-5% 2W |
| R782 | 0110279 | MF 27K OHM +-5% 2W |
| R783 | 0110279 | MF 27K OHM +-5% 2W |
| R784 | 0110279 | MF 27K OHM +-5% 2W |
| R785 | 0110279 | MF 27K OHM +-5% 2W |
| R786 | 0114213 | CF 33K OHM +-5% 1/4W |
| R787 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R790 | 0700059 | CF 27K OHM +-5% 1/16W |
| R791 | 0110101 | MF 15 OHM +-5% 1W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R801B | 0110371 | MF 12K OHM +-5% 3W |
| R801G | 0110371 | MF 12K OHM +-5% 3W |
| R801R | 0110371 | MF 12K OHM +-5% 3W |
| R802B | 0110369 | MF 10K OHM +-5% 3W |
| R802G | 0110369 | MF 10K OHM +-5% 3W |
| R802R | 0110369 | MF 10K OHM +-5% 3W |
| R803B | 0113744 | CF 560 OHM +-5% 1/2W |
| R803G | 0113744 | CF 560 OHM +-5% 1/2W |
| R803R | 0113744 | CF 560 OHM +-5% 1/2W |
| ⚠R804B | 0151635 | VR 1M OHM-B |
| ⚠R804G | 0151635 | VR 1M OHM-B |
| ⚠R804R | 0151635 | VR 1M OHM-B |
| R805B | 0179534 | MG 470K OHM +-5% 1/2W |
| R805G | 0179534 | MG 470K OHM +-5% 1/2W |
| R805R | 0179534 | MG 470K OHM +-5% 1/2W |
| R806B | 0179534 | MG 470K OHM +-5% 1/2W |
| R806G | 0179534 | MG 470K OHM +-5% 1/2W |
| R806R | 0179534 | MG 470K OHM +-5% 1/2W |
| R810B | 0100049 | CF 220 OHM +-5% 1/8W |
| R810G | 0100049 | CF 220 OHM +-5% 1/8W |
| R810R | 0100049 | CF 220 OHM +-5% 1/8W |
| R811B | 0100065 | CF 1K OHM +-5% 1/8W |
| R811G | 0100065 | CF 1K OHM +-5% 1/8W |
| R811R | 0100065 | CF 1K OHM +-5% 1/8W |
| R812B | 0100040 | CF 91 OHM +-5% 1/8W |
| R812G | 0100033 | CF 47 OHM +-5% 1/8W |
| R812R | 0100033 | CF 47 OHM +-5% 1/8W |
| ⚠R813G | 01513341 | VR 200 OHM-B |
| ⚠R813R | 01513341 | VR 200 OHM-B |
| R814R | 0100041 | CF 100 OHM +-5% 1/8W |
| R815B | 0100059 | CF 560 OHM +-5% 1/8W |
| R815G | 0100059 | CF 560 OHM +-5% 1/8W |
| R815R | 0100059 | CF 560 OHM +-5% 1/8W |
| R816B | 0114201 | CF 10K OHM +-5% 1/4W |
| R816G | 0114201 | CF 10K OHM +-5% 1/4W |
| R816R | 0114201 | CF 10K OHM +-5% 1/4W |
| R817B | 0100041 | CF 100 OHM +-5% 1/8W |
| R817G | 0100041 | CF 100 OHM +-5% 1/8W |
| R817R | 0100053 | CF 330 OHM +-5% 1/8W |
| ⚠R901 | 0139015 | CC 1M OHM +-20% 1/2W |
| ⚠R902 | 0144151 | WW 33 OHM +-5% 2W |
| ⚠R904 | 0147804 | WW 0.75 OHM 16W |
| R906 | 0114049 | CF 22 OHM +-5% 1/4W |
| R907 | 0114161 | CF 1K OHM +-5% 1/4W |
| R908 | 0145042 | MF 22K OHM +-5% 5W |
| ⚠R909 | 0147658 | WW 100 OHM +-5% 7W |
| R910 | 0110377 | MF 22K OHM +-5% 3W |
| R911 | 0113795 | CF 68K OHM +-5% 1/2W |
| ⚠R912 | 0148012 | WW 0.10 OHM +-10% 2W |
| R913 | 0700038 | CF 680 OHM +-5% 1/16W |
| R915 | 0100025 | CF 22 OHM +-5% 1/8W |
| R917 | 0700033 | CF 270 OHM +-5% 1/16W |
| R918 | 0187064 | CF 910 OHM +-5% 1/16W |
| R919 | 0700061 | CF 33K OHM +-5% 1/16W |
| R920 | 0700058 | CF 22K OHM +-5% 1/16W |
| R921 | 0700041 | CF 1K OHM +-5% 1/16W |
| R922 | 0700059 | CF 27K OHM +-5% 1/16W |
| ⚠R926 | 0147552 | WW 33 OHM +-5% 5W |
| R927 | 0110273 | MF 15K OHM +-5% 2W |
| R928 | 0700037 | CF 560 OHM +-5% 1/16W |
| R929 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R930 | 0700058 | CF 22K OHM +-5% 1/16W |
| R931 | 0700056 | CF 15K OHM +-5% 1/16W |
| R932 | 0700027 | CF 100 OHM +-5% 1/16W |
| R935 | 0700061 | CF 33K OHM +-5% 1/16W |
| R937 | 0700014 | CF 10 OHM +-5% 1/16W |
| R938 | 0119693 | MF 0.39 OHM +-5% 1W |
| R939 | 0700054 | CF 10K OHM +-5% 1/16W |
| R940 | 0148015 | WW 18 OHM +-10% 2W |
| R941 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R942 | 0119688 | MF 0.22 OHM +-5% 1W |
| R943 | 0700054 | CF 10K OHM +-5% 1/16W |
| R944 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R945 | 0700063 | CF 47K OHM +-5% 1/16W |
| R952 | 0700058 | CF 22K OHM +-5% 1/16W |
| R953 | 0119688 | MF 0.22 OHM +-5% 1W |
| R954 | 0119688 | MF 0.22 OHM +-5% 1W |
| R955 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R956 | 0700054 | CF 10K OHM +-5% 1/16W |
| ⚠R957 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R958 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R959 | 0700054 | CF 10K OHM +-5% 1/16W |
| R960 | 0110253 | MF 2.2K OHM +-5% 2W |
| R961 | 0113797 | CF 82K OHM +-5% 1/2W |
| R965 | 0700042 | CF1.2K OHM +-5% 1/16W |
| R967 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R968 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R971 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R972 | 0147726 | WW 4.7 OHM +-10% 10W |
| R973 | 0119514 | FR 10 OHM +-5% 1/4W |
| R974 | 0700038 | CF 680 OHM +-5% 1/16W |
| R975 | 0110101 | MF 15 OHM +-5% 1W |
| R976 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R977 | 0110101 | MF 15 OHM +-5% 1W |
| ⚠R978 | 0700041 | CF 1K OHM +-5% 1/16W |
| R981 | 0100067 | CF 1.2K OHM +-5% 1/8W |
| R982 | 0100067 | CF 1.2K OHM +-5% 1/8W |
| R983 | 0110177 | MF 22K OHM +-5% 1W |
| | | **ICs** |
| IC0001 | 2001458 | IC MN1872012AHHK (MICON) |
| IC0002 | 2381111 | IC M6M80021L |
| IC0003 | 2380391 | IC UPD6326C |
| IC0004 | 2380391 | IC UPD6326C |
| IC1201 | 2003201 | IC STK4275 (LINEAR) |
| IC1301 | 2003191 | IC STK4274 (LINEAR) |
| IC1326 | 2003191 | IC STK4274 (LINEAR) |
| IC1351 | 2003191 | IC STK4274 (LINEAR) |
| IC2001 | 2361411 | IC HD14520BP |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC2101 | 2383191 | IC LA7990 |
| IC2102 | 2914051 | IC NJM4560D |
| IC2103 | 2914051 | IC NJM4560D |
| IC2104 | 2914051 | IC NJM4560D |
| IC2105 | 2914051 | IC NJM4560D |
| IC3001 | 2003811 | IC M52472P (LINEAR) |
| IC3005 | 2383342 | IC LVA522SA-2 (LINEAR) |
| IC3006 | 2917611 | IC LA7016 |
| IC3007 | 2917611 | IC LA7016 |
| IC301 | 2381832 | IC HA11559NT |
| IC3301 | 2383342 | IC LVA522SA-2 (LINEAR) |
| IC3302 | 2380391 | IC UPD6326C |
| IC4001 | 2003425 | IC UPC7815AHF (LINEAR) |
| IC4002 | 2916321 | IC LA4280 |
| IC4003 | 2916321 | IC LA4280 |
| IC4004 | 2366392 | IC AN5836 |
| IC4005 | 2362605 | IC BA4558 |
| IC4401 | 2000991 | IC M51134P (LINEAR) |
| IC4402 | 2362605 | IC BA4558 |
| IC4403 | 2362605 | IC BA4558 |
| IC4405 | 2362605 | IC BA4558 |
| IC4406 | 2362605 | IC BA4558 |
| IC4407 | 2362605 | IC BA4558 |
| IC4408 | 2362651 | IC HD14053BP |
| IC4409 | 2366301 | IC UPD4052BC |
| IC4410 | 2362651 | IC HD14053BP |
| IC4411 | 2380041 | IC MN3008 |
| IC4412 | 2380051 | IC MN3101 |
| IC4413 | 2362605 | IC BA4558 |
| IC4414 | 2362605 | IC BA4558 |
| IC4415 | 2916051 | IC TA7629P |
| IC4416 | 2366392 | IC AN5836 |
| IC4427 | 2362605 | IC BA4558 |
| IC4601 | 2361362 | IC HD14069UBP |
| IC4602 | 2362605 | IC BA4558 |
| IC4603 | 2366301 | IC UPD4052BC |
| IC4604 | 2362605 | IC BA4558 |
| IC4605 | 2362651 | IC HD14053BP |
| IC4606 | 2000331 | IC LA2770 |
| IC4607 | 2362651 | IC HD14053BP |
| IC4608 | 2366392 | IC AN5836 |
| IC4609 | 2380391 | IC UPD6326C |
| IC4610 | 2362641 | IC HD14013BP |
| IC4611 | 2362605 | IC BA4558 |
| IC501 | 2916634 | IC HA11511CNT-01 |
| IC502 | 2003501 | IC LA7697(DS24) (LINEAR) |
| IC503 | 23687211 | IC AN5352 |
| IC504 | 2910815 | IC HD74HC00P |
| IC505 | 2382135 | IC HA178M09 |
| IC601 | 2003541 | IC LA7838 (LINEAR) |
| IC602 | 2003427 | IC UP7824AHF (LINEAR) |
| ⚠IC901 | 2380131 | IC UPC1094C |
| ⚠IC902 | 2381344 | IC SE130N |
| ⚠IC903 | 2000465 | IC PS2501-1 (KD/LD) (PHOTO COUPLER) |
| ⚠IC904 | 2000465 | IC PS2501-1 (KD/LD) (PHOTO COUPLER) |
| IC909 | 2000641 | IC SI-3240C (LINEAR) |
| IC910 | 2000632 | IC SI-3120CA |
| IC911 | 2003413 | IC UP7912HF (LINEAR) |
| IC913 | 2003416 | IC UP7924HF (LINEAR) |

## TRANSISTORS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| Q0001 | 2320644 | TR 2SC1213D SI 80MHZ 400MW |
| Q0003 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0004 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0005 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0006 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0007 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0008 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0009 | 2323521 | TR 2SD789 B/C/D/E |
| Q0010 | 2327783 | TR 2SC3553 C/D |
| Q0011 | 2327783 | TR 2SC3553 C/D |
| Q0012 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0013 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0014 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0015 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0016 | 2326216 | TR 2SC3116 S/T |
| Q0017 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0018 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0019 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0020 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0021 | 2312171 | TR 2SC3852 |
| Q0022 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0023 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0024 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1101 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1276 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1277 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1278 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1279 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1280 | 2327753 | TR 2SA1390 (C)/(D) |
| Q1401 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2001 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2002 | 2327753 | TR 2SA1390 (C)/(D) |
| Q2003 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2004 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2005 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2006 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2007 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2008 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2009 | 2327753 | TR 2SA1390 (C)/(D) |
| Q2010 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2011 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2115 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2116 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2122 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2123 | 2320681 | TR 2SA673A B/C SI 80MHZ 400MW |
| Q2124 | 2320681 | TR 2SA673A B/C SI 80MHZ 400MW |
| Q2125 | 2320681 | TR 2SA673A B/C SI 80MHZ 400MW |
| Q2126 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| Q2130 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2131 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2133 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q2141 | 2320663 | TR 2SC1213AC SI 80MHZ 400MW |
| Q2142 | 2320595 | TR 2SC458(D) SI 230MHZ 200MW |
| Q3007 | 2326021 | TR 2SC1741S |
| Q3018 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3019 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q302 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3023 | 2327753 | TR 2SA1390 (C)/(D) |
| Q3024 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3025 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3026 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3027 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q303 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q304 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q305 | 2327753 | TR 2SA1390 (C)/(D) |
| Q306 | 2327753 | TR 2SA1390 (C)/(D) |
| Q307 | 2327753 | TR 2SA1390 (C)/(D) |
| Q308 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q309 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q310 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q311 | 2326021 | TR 2SC1741S |
| Q312 | 2325702 | TR 2SA854S Q/R |
| Q313 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q314 | 2327753 | TR 2SA1390 (C)/(D) |
| Q315 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q316 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q317 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q318 | 2327753 | TR 2SA1390 (C)/(D) |
| Q321 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q323 | 2327753 | TR 2SA1390 (C)/(D) |
| Q324 | 2327753 | TR 2SA1390 (C)/(D) |
| Q3301 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3302 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3303 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3304 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3305 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3306 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3307 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4003 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4004 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4005 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4006 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4007 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4008 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4010 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4011 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4013 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4014 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4017 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4018 | 2327783 | TR 2SC3553 C/D |
| Q4019 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4020 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4021 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4022 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4023 | 2327783 | TR 2SC3553 C/D |
| Q4024 | 2312171 | TR 2SC3852 |
| Q4028 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4029 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4030 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4031 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4401 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4408 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4409 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4410 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4411 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4412 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4413 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4414 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4415 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4601 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4602 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4603 | 2327753 | TR 2SA1390 (C)/(D) |
| Q501 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q502 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q503 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q504 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q505 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q507 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q508 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q509 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q601 | 2327753 | TR 2SA1390 (C)/(D) |
| Q602 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q603 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q7001 | 2312171 | TR 2SC3852 |
| ⚠Q701 | 2326216 | TR 2SC3116 S/T |
| Q707 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q708 | 2327753 | TR 2SA1390 (C)/(D) |
| Q710 | 2323123 | TR 2SD1133 (D) |
| Q711 | 2327753 | TR 2SA1390 (C)/(D) |
| Q713 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q714 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| ⚠Q777 | 2315273 | TRANSISTOR 2SC4589-04 |
| ⚠Q780 | 2314991 | TRANSISTOR 2SC4630 |
| Q801B | 2312651 | TR 2SC3503 C/D/E/F |
| Q801G | 2312651 | TR 2SC3503 C/D/E/F |
| Q801R | 2312651 | TR 2SC3503 C/D/E/F |
| Q802B | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q802G | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q802R | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q803B | 2327753 | TR 2SA1390 (C)/(D) |
| Q803G | 2327753 | TR 2SA1390 (C)/(D) |
| Q803R | 2327753 | TR 2SA1390 (C)/(D) |
| ⚠Q902 | 2390623 | TRANSISTOR 2SK1181(LF714A) |
| ⚠Q903 | 2323782 | TR 03P2M |
| Q904 | 2321112 | TR 2SA778A |
| Q905 | 2327753 | TR 2SA1390 (C)/(D) |
| ⚠Q906 | 2327753 | TR 2SA1390 (C)/(D) |
| ⚠Q907 | 2312941M | TR 2SC3413BC/1740S-QRTA |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| Q908 | 2327753 | TR 2SA1390 (C)/(D) | D2111 | 23383211 | DI 1SS270 |
| Q909 | 2312941M | TR 2SC3413BC/1740S-QRTA | D3001 | 23383211 | DI 1SS270 |
| ⚠Q910 | 2323782 | TR 03P2M | D3002 | 23383211 | DI 1SS270 |
| | | | D3003 | 23383211 | DI 1SS270 |
| | | **DIODES** | D3004 | 23383211 | DI 1SS270 |
| D0001 | 23383211 | DI 1SS270 | D3005 | 23383211 | DI 1SS270 |
| D0002 | 23383211 | DI 1SS270 | D3006 | 23383211 | DI 1SS270 |
| D0003 | 23383211 | DI 1SS270 | D301 | 23383211 | DI 1SS270 |
| D0007 | 23383211 | DI 1SS270 | D3012 | 23383211 | DI 1SS270 |
| D0008 | 23383211 | DI 1SS270 | D3013 | 23383211 | DI 1SS270 |
| D0009 | 23383211 | DI 1SS270 | D302 | 23383211 | DI 1SS270 |
| D0017 | 23383211 | DI 1SS270 | D303 | 23383211 | DI 1SS270 |
| D0018 | 23383211 | DI 1SS270 | D304 | 23383211 | DI 1SS270 |
| D0019 | 23383211 | DI 1SS270 | D305 | 23383211 | DI 1SS270 |
| D0022 | 23383211 | DI 1SS270 | D306 | 23383211 | DI 1SS270 |
| D0023 | 23383211 | DI 1SS270 | D307 | 23383211 | DI 1SS270 |
| D0024 | 23383211 | DI 1SS270 | D308 | 23383211 | DI 1SS270 |
| D0026 | 23383211 | DI 1SS270 | D309 | 23383211 | DI 1SS270 |
| D0028 | 23383211 | DI 1SS270 | D310 | 23383211 | DI 1SS270 |
| D0031 | 23383211 | DI 1SS270 | D311 | 23383211 | DI 1SS270 |
| D0032 | 23383211 | DI 1SS270 | D312 | 23383211 | DI 1SS270 |
| D0033 | 23383211 | DI 1SS270 | D313 | 23383211 | DI 1SS270 |
| D0034 | 23383211 | DI 1SS270 | D316 | 23383211 | DI 1SS270 |
| D0035 | 23383211 | DI 1SS270 | D317 | 23383211 | DI 1SS270 |
| D0036 | 23383211 | DI 1SS270 | D3301 | 23383211 | DI 1SS270 |
| D0037 | 23383211 | DI 1SS270 | D4002 | 23383211 | DI 1SS270 |
| D0038 | 23383211 | DI 1SS270 | D4004 | 23383211 | DI 1SS270 |
| D0039 | 23383211 | DI 1SS270 | D4009 | 23383211 | DI 1SS270 |
| D0040 | 23383211 | DI 1SS270 | D4010 | 23383211 | DI 1SS270 |
| D0041 | 23383211 | DI 1SS270 | D4011 | 23383211 | DI 1SS270 |
| D1276 | 23383211 | DI 1SS270 | D4012 | 23383211 | DI 1SS270 |
| D1301 | 23394911 | DI AM01Z | D4013 | 23383211 | DI 1SS270 |
| D1401 | 2339691 | LED SLH-56VC77F | D4014 | 23383211 | DI 1SS270 |
| D2001 | 23383211 | DI 1SS270 | D4015 | 23394911 | DI AM01Z |
| D2002 | 23383211 | DI 1SS270 | D4401 | 23383211 | DI 1SS270 |
| D2003 | 23383211 | DI 1SS270 | D4402 | 23383211 | DI 1SS270 |
| D2004 | 23383211 | DI 1SS270 | D4403 | 23383211 | DI 1SS270 |
| D2005 | 23383211 | DI 1SS270 | D4404 | 23383211 | DI 1SS270 |
| D2006 | 23383211 | DI 1SS270 | D4405 | 23383211 | DI 1SS270 |
| D2007 | 23383211 | DI 1SS270 | D4601 | 23383211 | DI 1SS270 |
| D2008 | 23383211 | DI 1SS270 | D4602 | 23383211 | DI 1SS270 |
| D2009 | 23383211 | DI 1SS270 | D4603 | 23383211 | DI 1SS270 |
| D2010 | 23383211 | DI 1SS270 | D4604 | 23383211 | DI 1SS270 |
| D2011 | 23383211 | DI 1SS270 | D4605 | 23383211 | DI 1SS270 |
| D2012 | 23383211 | DI 1SS270 | D4606 | 23383211 | DI 1SS270 |
| D2013 | 23383211 | DI 1SS270 | D501 | 23383211 | DI 1SS270 |
| D2014 | 23383211 | DI 1SS270 | D502 | 23383211 | DI 1SS270 |
| D2101 | 23383211 | DI 1SS270 | D503 | 23383211 | DI 1SS270 |
| D2102 | 23383211 | DI 1SS270 | D507 | 23383211 | DI 1SS270 |
| D2103 | 23383211 | DI 1SS270 | D508 | 23383211 | DI 1SS270 |
| D2104 | 23383211 | DI 1SS270 | D651 | 2338902 | DI DFM1SA4 |
| D2105 | 23383211 | DI 1SS270 | D652 | 2338902 | DI DFM1SA4 |
| D2107 | 23383211 | DI 1SS270 | D653 | 23394911 | DI AM01Z |
| D2108 | 23383211 | DI 1SS270 | D654 | 23394911 | DI AM01Z |
| D2109 | 23383211 | DI 1SS270 | D655 | 23383211 | DI 1SS270 |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| D657 | 23383211 | DI 1SS270 | ZD0021 | 2339839 | ZD HZS5C3 |
| D658 | 23394911 | DI AM01Z | ZD1226 | 2334324 | ZD RD36EB3 |
| D659 | 23383211 | DI 1SS270 | ZD1227 | 2334324 | ZD RD36EB3 |
| D660 | 23394911 | DI AM01Z | ZD1301 | 2334324 | ZD RD36EB3 |
| D7001 | 23383211 | DI 1SS270 | ZD1302 | 2334324 | ZD RD36EB3 |
| D7002 | 23383211 | DI 1SS270 | ZD1311 | 2334324 | ZD RD36EB3 |
| D7003 | 23383211 | DI 1SS270 | ZD1312 | 2334324 | ZD RD36EB3 |
| D7004 | 23383211 | DI 1SS270 | ZD1326 | 2334324 | ZD RD36EB3 |
| ⚠D701 | 2330564 | DI V11N SI | ZD1327 | 2334324 | ZD RD36EB3 |
| ⚠D702 | 2338902 | DI DFM1SA4 | ZD1336 | 2334324 | ZD RD36EB3 |
| ⚠D703 | 2330564 | DI V11N SI | ZD1337 | 2334324 | ZD RD36EB3 |
| D705 | 2338902 | DI DFM1SA4 | ZD1351 | 2334324 | ZD RD36EB3 |
| ⚠D706 | 2348511 | DIODE RS3FS | ZD1352 | 2334324 | ZD RD36EB3 |
| D707 | 2339531 | DI RG4A | ZD1361 | 2334324 | ZD RD36EB3 |
| D709 | 23383211 | DI 1SS270 | ZD1362 | 2334324 | ZD RD36EB3 |
| D710 | 2334581 | DI ES1A SI | ZD1401 | 2339839 | ZD HZS5C3 |
| ⚠D711 | 2330564 | DI V11N SI | ZD2101 | 2334285 | DIODE-ZENER RD24EB4 |
| D728 | 23383211 | DI 1SS270 | ZD2102 | 2334285 | DIODE-ZENER RD24EB4 |
| D781 | 23383211 | DI 1SS270 | ZD2103 | 2334285 | DIODE-ZENER RD24EB4 |
| D801B | 23383211 | DI 1SS270 | ZD2104 | 2334285 | DIODE-ZENER RD24EB4 |
| D801G | 23383211 | DI 1SS270 | ZD2105 | 2334285 | DIODE-ZENER RD24EB4 |
| D801R | 23383211 | DI 1SS270 | ZD2106 | 2334285 | DIODE-ZENER RD24EB4 |
| ⚠D901 | 2342061 | DI D3SB(A)60 | ZD2107 | 2334285 | DIODE-ZENER RD24EB4 |
| D901S | 23394911 | DI AM01Z | ZD2108 | 2334285 | DIODE-ZENER RD24EB4 |
| D902 | 23394911 | DI AM01Z | ZD2109 | 2334285 | DIODE-ZENER RD24EB4 |
| D903 | 23394911 | DI AM01Z | ZD2110 | 2334285 | DIODE-ZENER RD24EB4 |
| D906 | 2398611 | DI 1SS254 | ZD3001 | 2339868M | ZD HZS9C2TA |
| D907 | 2338532 | DI EG-01A | ZD3002 | 2339868M | ZD HZS9C2TA |
| D908 | 23394811 | DI AS01Z | ZD3003 | 2339868M | ZD HZS9C2TA |
| ⚠D909 | 2338944 | DI FML-G12S(F) | ZD301 | 2331781 | ZD HZ4 (A1) |
| ⚠D910 | 2338932 | DI FMG-G36S | ZD302 | 2339868M | ZD HZS9C2TA |
| D911 | 23383211 | DI 1SS270 | ZD303 | 2339868M | ZD HZS9C2TA |
| ⚠D925 | 2338944 | DI FML-G12S(F) | ZD304 | 2339868M | ZD HZS9C2TA |
| ⚠D926 | 2338944 | DI FML-G12S(F) | ZD305 | 2339868M | ZD HZS9C2TA |
| ⚠D927 | 2338944 | DI FML-G12S(F) | ZD306 | 2339868M | ZD HZS9C2TA |
| ⚠D928 | 2338944 | DI FML-G12S(F) | ZD307 | 2339868M | ZD HZS9C2TA |
| D929 | 23383211 | DI 1SS270 | ZD308 | 2339211 | ZD HZS24-1L |
| D930 | 23383211 | DI 1SS270 | ZD309 | 2339868M | ZD HZS9C2TA |
| D931 | 23394911 | DI AM01Z | ZD312 | 2339831M | DIODE-ZENER HZS5A1-M |
| D932 | 23394911 | DI AM01Z | ZD313 | 2331849 | ZD HZ-12(C3) |
| D937 | 23394911 | DI AM01Z | ZD314 | 2339231 | ZD HZS30-1L |
| D938 | 23394911 | DI AM01Z | ZD315 | 2331849 | ZD HZ-12(C3) |
| D939 | 23383211 | DI 1SS270 | ZD3301 | 2331849 | ZD HZ-12(C3) |
| ZD0001 | 2331785 | DIODE-ZENER HZ4(B2) | ZD3302 | 2331799 | ZD HZ5(C)3 SI |
| ZD0002 | 2331849 | ZD HZ-12(C3) | ZD3303 | 2331799 | ZD HZ5(C)3 SI |
| ZD0003 | 2331845 | ZD HZ12 (B2) | ZD3304 | 2331799 | ZD HZ5(C)3 SI |
| ZD0004 | 2331804 | ZD HZ6 (B1) | ZD3305 | 2331799 | ZD HZ5(C)3 SI |
| ZD0005 | 2331804 | ZD HZ6 (B1) | ZD3306 | 2331799 | ZD HZ5(C)3 SI |
| ZD0006 | 2331833 | ZD HZ11(A)3 SI | ZD4001 | 2331833 | ZD HZ11(A)3 SI |
| ZD0007 | 2339242 | ZD HZS33-2L | ZD4002 | 2334283 | ZD RD24EB2 |
| ZD0014 | 2331819 | ZD HZ7(C)3 SI | ZD4003 | 2331849 | ZD HZ-12(C3) |
| ZD0015 | 2331799 | ZD HZ5(C)3 SI | ZD4004 | 2331849 | ZD HZ-12(C3) |
| ZD0018 | 2331799 | ZD HZ5(C)3 SI | ZD4005 | 2331849 | ZD HZ-12(C3) |
| ZD0019 | 2331804 | ZD HZ6 (B1) | ZD4006 | 2331849 | ZD HZ-12(C3) |
| ZD0020 | 2339825 | ZD HZS4B2 | ZD4007 | 2331849 | ZD HZ-12(C3) |

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ZD4008 | 2331849 | ZD HZ-12(C3) |
| ZD4009 | 2331849 | ZD HZ-12(C3) |
| ZD4010 | 2331831 | ZD HZ-11 (A1) |
| ZD4012 | 2331833 | ZD HZ11(A)3 SI |
| ZD4401 | 2339833M | DIODE-ZENER HZS5A3 |
| ZD4404 | 2330631 | ZD HZ7(A) SI |
| ZD4601 | 2331795 | ZD HZ-5 (B2) |
| ZD501 | 2331828M | ZD HZ-9C2 TA |
| ZD502 | 2331828M | ZD HZ-9C2 TA |
| ZD503 | 2331828M | ZD HZ-9C2 TA |
| ZD601 | 2331828M | ZD HZ-9C2 TA |
| ZD602 | 2334323M | DIODE-ZENER RD36EB2 |
| ZD603 | 2331828M | ZD HZ-9C2 TA |
| ZD651 | 2331807 | ZD HZ-6 (C1) |
| ZD652 | 2331154 | ZD HZ12 (A1-3/B1-3/C1-3) |
| ZD653 | 2334305 | ZD RD30E (B4) |
| ZD7001 | 2331828M | ZD HZ-9C2 TA |
| ZD7002 | 2339846M | ZD HZS6B3TA |
| ZD7003 | 2339825 | ZD HZS4B2 |
| ZD7004 | 2331849 | ZD HZ-12(C3) |
| ZD7005 | 2331828M | ZD HZ-9C2 TA |
| ZD709 | 2339801 | ZD HZS2B1 |
| ⚠ZD710 | 2335461 | ZD HZ24 (2L) |
| ZD712 | 2334334 | ZD RD39EB3 |
| ZD801B | 2331827 | ZD HZ-9 (C1) |
| ZD801G | 2331827 | ZD HZ-9 (C1) |
| ZD801R | 2331827 | ZD HZ-9 (C1) |
| ZD901 | 2339031 | ZD HZS6C1L |
| ZD903 | 2334324 | ZD RD36EB3 |
| ZD904 | 2343111 | DIODE-ZENER HZ16-1L |
| ZD906 | 2339031 | ZD HZS6C1L |
| ZD913 | 2334283 | ZD RD24EB2 |
| ZD916 | 2339231 | ZD HZS30-1L |

## TRANSFORMERS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ⚠T701 | 2260291 | HOLIZONTAL DRIVE TRANSFORMER |
| ⚠T702 | 2436492 | FLYBACK TRANSFORMER |
| ⚠T703 | 2272762 | SPC TRANSFORMER |
| ⚠T901 | 2213993 | POWER TRANSFORMER |
| ⚠T902 | 2215592 | SWITCHING TRANSFORMER |
| ⚠T903 | 2215861 | POWER TRANSFORMER |

## FUSES

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ⚠F901 | 2721053 | UL FUSE 5A |
| ⚠F903 | 2721052 | UL FUSE 4A |
| ⚠F904 | 2721052 | UL FUSE 4A |
| ⚠F905 | 2721051 | UL FUSE 1.6A |

## COMPOUND CONPONENTS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CP0001 | 2791754 | DSS306-55B101M |
| CP0002 | 2791754 | DSS306-55B101M |
| CP0003 | 2791754 | DSS306-55B101M |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CP0004 | 2791754 | DSS306-55B101M |
| CP1401 | 2574761 | REMOTE CONTROL RECEIVER SPS-409-1G |
| ⚠CP702 | 0150665 | FOCUS PACK MHF174-03H |
| ⚠CP901 | 2793312 | CAPRISTOR |
| ⚠CP903 | 2793312 | CAPRISTOR |
| MF0001 | 2163972 | CERAMIC FILTER 6MHZ |
| MF301 | 2163971 | CERAMIC FILTER |
| MF7001 | 2786683 | CERAMIC OSCILLATOR |
| M301 | 2375233 | CHIP BOARD HC3023 |
| M302 | 2375251 | CHIP BOARD HC3031 |
| M4001 | 2378211 | MODULE MC-7001 (B) |

## COILS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| L0001 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0002 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0003 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0004 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0005 | 2122253 | LA AXIAL COIL 100 MICRO H |
| L1291 | 2272753 | FOCUS CHOKE COIL |
| L2101 | 2120484 | FILTER COIL |
| L2102 | 2120484 | FILTER COIL |
| L2103 | 2120484 | FILTER COIL |
| L2104 | 2120484 | FILTER COIL |
| L3002 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3004 | 2122951 | LA AXIAL COIL 39 MICRO H +-10% |
| L3005 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3006 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3007 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3008 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L301 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3011 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3012 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L302 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L303 | 2122942 | LA AXIAL COIL 8.2 MICRO H +-10% |
| L304 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L3301 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3302 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3303 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3304 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3305 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L501 | 2122951 | LA AXIAL COIL 39 MICRO H +-10% |
| L651 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L701 | 2121181 | FILTER COIL |
| L703 | 2124181 | CHOKE COIL |
| L706 | 2124511 | LINEARITY COIL |
| L707 | 2122095 | FILTER COIL 27 MICRO H |
| L708 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L709 | 2122094 | FIXED COIL |
| L711 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L802B | 2122255 | LA AXIAL COIL 150 MICRO H |
| L802G | 2122255 | LA AXIAL COIL 150 MICRO H |
| L802R | 2122255 | LA AXIAL COIL 150 MICRO H |
| ⚠L901 | 2229052 | LINE FILTER 3.5A |

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ⚠L902 | 2229052 | LINE FILTER 3.5A |
| ⚠L903 | 2274556 | FILTER COIL |
| ⚠L904 | 2229052 | LINE FILTER 3.5A |
| ⚠L905 | 2229052 | LINE FILTER 3.5A |
| L906 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L907 | 2122653 | FERRITE BEADS CORE |
| L908 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L909 | 2122653 | FERRITE BEADS CORE |
| L910 | 2122653 | FERRITE BEADS CORE |
| L911 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L915 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L916 | 2122653 | FERRITE BEADS CORE |
| L918 | 2122653 | FERRITE BEADS CORE |
| L919 | 2122653 | FERRITE BEADS CORE |
| L920 | 2121676 | FIXED COIL |
| L922 | 2161152 | FILTER COIL |
| L929 | 2121674 | LINE FILTER COIL |
| L952 | 2161152 | FILTER COIL |
| L953 | 2161152 | FILTER COIL |
| L954 | 2161152 | FILTER COIL |
| L955 | 2161152 | FILTER COIL |
| L969 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L970 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L971 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L972 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L973 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L974 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L975 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L981 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L982 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L983 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L984 | 2161152 | FILTER COIL |

## SWITCHES

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| S1401 | 2631863 | PUSH SWITCH |
| S1402 | 2983111 | 3P JACK WITH S TERMINAL |
| S2001 | 2621031 | SLIDE SWITCH |
| S301 | 2621051 | SLIDE SWITCH |

## MISCELLANEOUS

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 3209672 | CONTROL PANEL ASS'Y |
|  | 3785043 | PUSH LOCK A |
|  | 3811195 | POWER KNOB |
|  | 3332453 | SPRING FOR KNOB |
| 2 | 3821102 | DOOR ASS'Y |
| 3 | 3462207 | BACK COVER (HHEA MD) |
| 4 | 4336491 | CASTER METAL |
| 5 | 3700971 | LEAD CLAMP |
| 6 | 3811971 | BACK COVER DOOR |
| 7 | 4305083 | LENS-CRT UNIT METAL SUPPORT |
| 8 | 4305082 | LENS-CRT UNIT METAL SUPPORT R |
| 9 | 4524911 | HEXAGON FLANGEHEAD 4X12 |
| 10 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 11 | 8781440 | 3X10 TAPPING SCREW |
| 12 | 4518772 | 3X12 TNE |
| 13 | 3716742 | PLASTIC HOLDER |
| 14 | 3746482 | WIRE CLAMP |
| 15 | 4520771 | 4X18 TAPPING SCREW WITH WASHER |
| 16 | 4520883 | M3X12 SCREW WITH WASHER |
| 17 | 4482582 | BACK COVER SUPPORT METAL |
| 18 | 3209494 | TERMINAL BOARD ASS'Y |
| 19 | 3853201 | SUPPORT METAL COVER |
| 20 | 4137975 | 4X16 ZA R SCREW |
| 21 | 3122983 | CABINET ASS'Y (HHEA MD) [for 50UX10B] |
| 21 | 3142511 | CABINET ASS'Y (HHEA MD) [for 50UX11K] |
|  | 3742021 | LEAD HOLDER(CABINET) |
|  | 4526351 | SPACER |
| 22 | 4329271 | WASHER (F) |
| 23 | 3191461 | 50 FRONT SURF MIRROR |
| 24 | 4522901 | NUT |
| 25 | 3850471 | SCREEN FRAME (H) |
| 26 | 3850472 | SCREEN FRAME (V) |
| 27 | 4519503 | 3X12 TAPPING SCREW |
| 28 | 4520232 | 4X16 DT SCREW |
| 29 | 4618172 | RUBBER SPACER |
| 30 | 4524912 | HEXAGON FLANGEHEAD 4X16 |
| 31 | 3447251 | UNIT METAL COVER (A) |
| 32 | 3447252 | UNIT METAL COVER (B) |
| 33 | 4519512 | TAPPING SCREW 4X16 MM |
| 34 | 3169601 | REAR BOARD (HHEA MD) |
| 35 | 4304282 | COVER NET |
| 36 | 4517997 | 4X12 SELF TAPPING SCREW |
| 37 | 3727972 | HOLDER-AC LINE CORD |
| 38 | 3189413 | SCREEN ASS'Y (HHEA MD) |
| 39 | 3104491 | FRAME ASS'Y (HHEA MD) |
| ⚠40 | 4866386 | LENS CRT BLOCK ASS'Y B (HHEA MD) |
| ⚠41 | 4866385 | LENS CRT BLOCK ASS'Y G (HHEA MD) |
| ⚠42 | 4866384 | LENS CRT BLOCK ASS'Y R (HHEA MD) |
|  | 2720221 | FUSE HOLDER |
|  | 3763752 | SK BINDER |
|  | 4520885 | M3X16 SCREW |
|  | 4520881 | M3X8 SCREW WITH WASHER |
| ⚠ | 2784342 | CONDENSER COVER |
|  | 4770601 | 3 FLANGE NUT |
|  | 3731081 | PURSE LOCK 10 |
|  | 3737101 | PURSE LOCK 15 |
|  | 2940781 | FERRITE CLUMP |
|  | 4159425 | 3X16 TAPPING SCREW |
|  | 4526322 | M8X10 SCREW |
|  | 4524913 | HEXAGON FLANGEHEAD 4X12 R |
| ⚠ | 3708416 | LENS SASS SP B |
| ⚠ | 3708415 | LENS SASS SP RG2 |
|  | 4526102 | 4X18 SCREW |
|  | 4526101 | 4X12 SCREW |
|  | 4518253 | 3X10 TAPPING SCREW FOR PLASTIC |
|  | 3332021 | EARTH SPRING |

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
|  | 4159411 | 3X8 KNURL TAPPING SCREW |
|  | 8815124 | WASHER,LOCK 3MM |
|  | 3763751 | SK BINDER |
|  | 8821114 | NUT 3 |
| DL3001 | 2165801 | DELAY LNE SDL4242 |
| E | 2771894 | FERRITE BEADS CORE 006 |
| ⚠EANT | 2427365 | ANTENNA SWITCH ASS'Y ASB-311E- |
| EB | 2771892 | FERRITE BEADS CORE 004 |
| EC | 2771893 | FERRITE BEADS CORE |
| ECB | 2661753 | PIN PLUG WITH BASE |
| ECD | 2902263 | 4P SUB MINI PLUG PIN |
| ECG | 2661753 | PIN PLUG WITH BASE |
| ECR | 2661753 | PIN PLUG WITH BASE |
| ED | 2661753 | PIN PLUG WITH BASE |
| ED | 2771893 | FERRITE BEADS CORE |
| EDA | 2661751 | PLUG PIN WITH BASE |
| EFO | 2661753 | PIN PLUG WITH BASE |
| EIE | 2663821 | 2P PLUG PIN |
| EJ1G | 2663821 | 2P PLUG PIN |
| EMB | 2665272 | 4P PLUG PIN WITH BASE |
| EMG | 2665272 | 4P PLUG PIN WITH BASE |
| EMR | 2665272 | 4P PLUG PIN WITH BASE |
| ESL | 2661944 | CONNECTOR |
| ETS | 2663821 | 2P PLUG PIN |
| E1 | 2983082 | OP PIN JACK WITH S TERMINAL |
| ⚠E101 | 2444871 | DEFLECTION YOKE (HHEA MD) |
| ⚠E101G | 2444872 | DEFLECTION YOKE (HHEA MD) |
| E103G | 3810831 | MAGNET SPACER |
| E104 | 2774965 | BEAM ALINEMENT MAGNET (HHEA MD) |
| E104G | 2774962 | BEAM ALINEMENT MAGNET |
| ⚠E105G | 2774976 | FOCUS MAGNET (HHEA MD) |
| E2 | 2983388 | 9P PINJACK WITH SWITCH |
| E202 | 2982471 | 300-75 VHF ADAPTER |
| E3 | 2983082 | OP PIN JACK WITH S TERMINAL |
| E301 | 2573416 | REMOTE CONTROL TRANSMITTER CLU-950GR2 (HHEA MD) |
| E302 | 2573522 | REMOTE CONTROL TRANSMITTER CLU-609 (HHEA MD) |
| E4 | 2983387 | 5P PIN JACK |
| E4801 | 2983011 | 4P PUSH TERMINAL |
| ⚠E801B | 2953344 | CPT SOCKET |
| ⚠E801G | 2953344 | CPT SOCKET |
| ⚠E801R | 2953344 | CPT SOCKET |
| E802 | 2661756 | 1P PLUG PIN WITH BASE |
| ⚠E9001 | 2972522 | POWER SUPPLY CORD |
| ⚠E9002 | 3772201 | AC CORD HOLDER |
| ⚠E9003 | 3739671 | CORD HOLDER |
| ⚠FE0001 | 2429341 | FRONTEND V8-A58FT |
| ⚠RL901 | 2640574 | RELAY |
| SG801B | 2340039 | SPARK GAP |
| SG801G | 2340039 | SPARK GAP |
| SG801R | 2340039 | SPARK GAP |
| SG802B | 2340039 | SPARK GAP |
| SG802G | 2340039 | SPARK GAP |
| SG802R | 2340039 | SPARK GAP |
| ⚠SP401 | 2412921 | SPEAKER 160MM |
| ⚠SP402 | 2412921 | SPEAKER 160MM |
| ⚠SP403 | 2414941 | SPEAKER (HHEA MD) |
| ⚠SP404 | 2414941 | SPEAKER (HHEA MD) |
| TH2101 | 2340552 | THERMISTOR |
| PDA | 2661941 | L TYPE PLUG WITH BASE2P |
| PPD | 2663134 | PLUG PIN WITH BASE (5P) |
| PP31 | 2661751 | PLUG PIN WITH BASE |
| W811B | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| W811G | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| W811R | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| X501 | 2791501 | CRYSTAL HC-49/U |

# HITACHI SERVICE MANUAL

**YK** | **No.0403E**

# 50UX7B/K/W

NTSC

AP13 Chassis

**R/C:CLU-950GR**

## CONTENTS

SAFETY PRECAUTIONS ........ 2
SERVICING PRECAUTIONS ........ 5
TECHNICAL CAUTIONS ........ 8
SPECIFICATIONS ........ 9
CIRCUIT PROTECTION ........ 9
GENERAL INFORMATION ........ 10
ADJUSTING FOR PICTURE AND SOUND FUNCTIONS ........ 12
CONVERGENCE ADJUSTMENT ........ 15
CAUTIONS WHEN CONNECTING/DISCONNECTING THE HV CONNECTOR ........ 17
BASIC CIRCUIT DIAGRAM ........ 18
WAVEFORMS AT EACH SECTION ........ 45
WIRING DIAGRAM ........ 50
PRINTED WIRING BOARD ........ 55
BLOCK DIAGRAM ........ 61
EXPLODED VIEW ........ 63
REPLACEMENT PARTS LIST ........ 66

**CAUTION:** Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

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## SAFETY NOTICE
## USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by ⚠ on schmatics and on the parts list in this Service Data and its supplements and bulletins. Before servicing this chassis, it is important that the service technician read and follow the "Safety Precautions" and "Product Safety Notices" in this Service Manual.

* For continued x-radiation protection, replace picture tube with original type or Hitachi approved equivalent tipe.

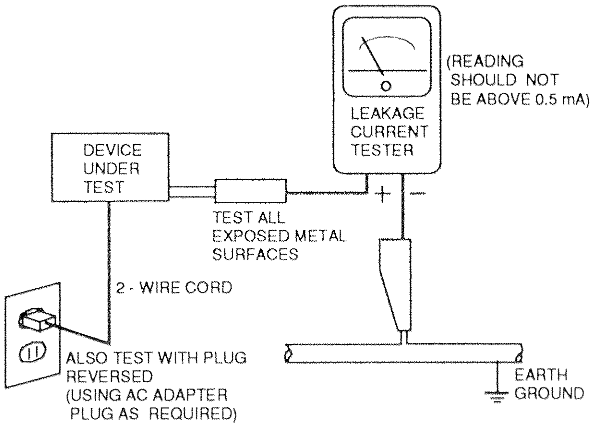
**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT**

# PROJECTION COLOR TELEVISION

**May 1991** **YOKOHAMA WORKS**

## SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to the following items:
   - a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - c. **Antenna Cold Check** — With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - d. **Leakage Current Hot Check** — With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.


(READING SHOULD NOT BE ABOVE 0.5 mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
+
−
TEST ALL EXPOSED METAL SURFACES
2 - WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

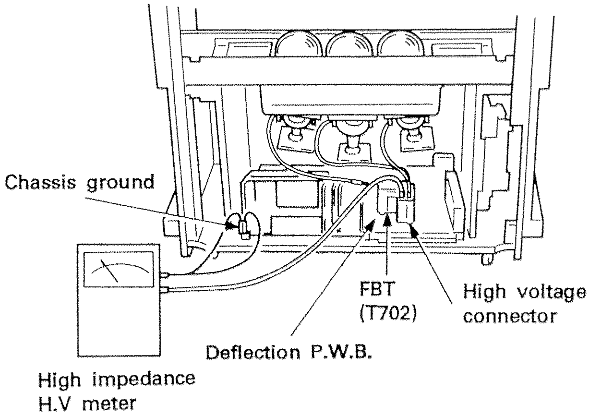
AC Leakage Test

**ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.**

   - e. **High Voltage** — This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.
   - f. **Serviceman warning** — With minimum Black Level and Picture, operating high voltage in this receiver is lower than **31.6kV.** In case any component having influenced on high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than **31.6kV.**

     To measure H.V. use a high impedance H.V. meter. Connect (−) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

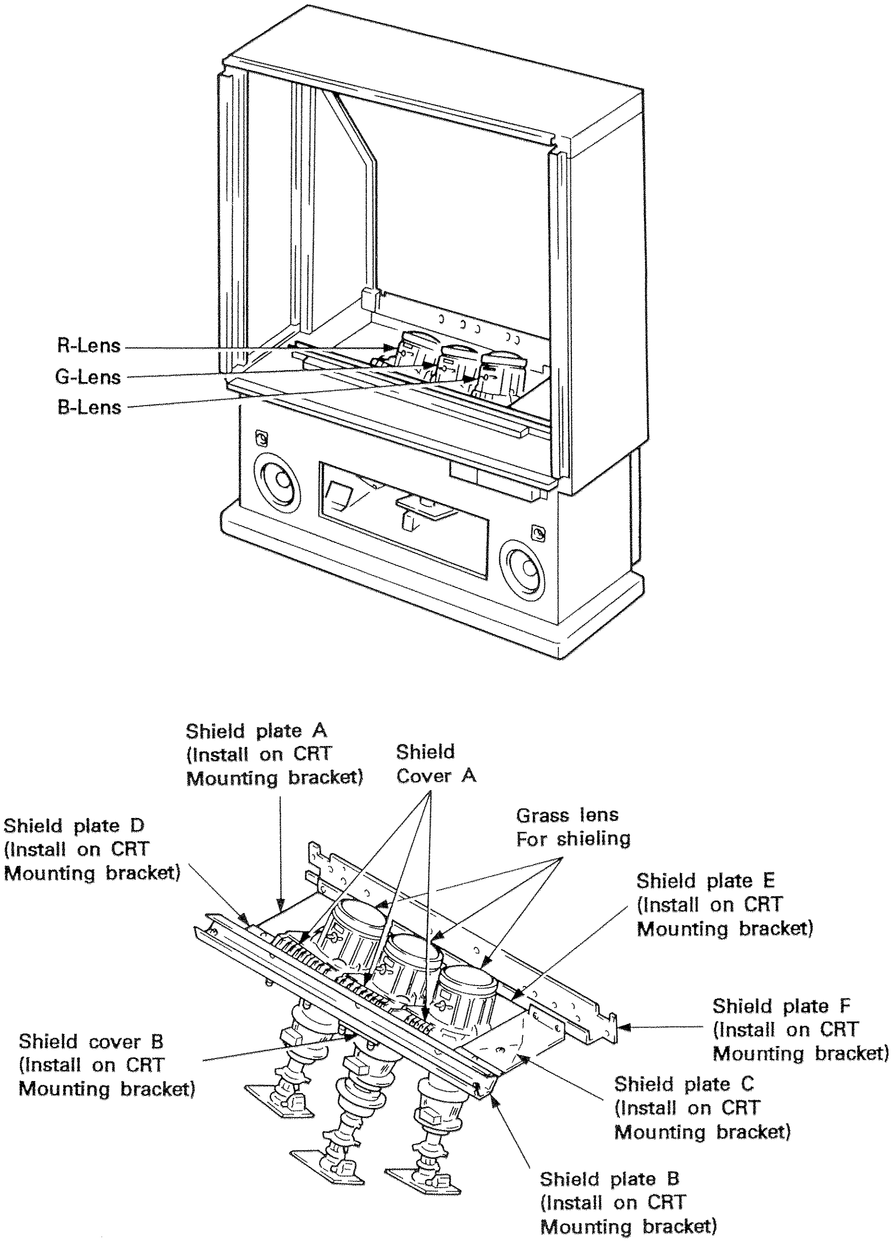
**Note:** Turn power switch off without fail before the connection with Anode button is made.



g. **X-radiation — TUBE:** The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation emissions.
For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.
When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

h. **X-radiation Shield —**

1) This receiver is provided X-ray shield plates for the protection of X-radiation. Do not remove X-ray shield **plates A, B, C, D, E, F and shield covers A, B shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.**
2) To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.


R-Lens
G-Lens
B-Lens
Shield plate A (Install on CRT Mounting bracket)
Shield Cover A
Shield plate D (Install on CRT Mounting bracket)
Grass lens For shieling
Shield plate E (Install on CRT Mounting bracket)
Shield plate F (Install on CRT Mounting bracket)
Shield cover B (Install on CRT Mounting bracket)
Shield plate C (Install on CRT Mounting bracket)
Shield plate B (Install on CRT Mounting bracket)

Detailling X-radiation shields
**Fig. 1**

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** — Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to, circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** — The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning** — **a**. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b**. Some TV receiver chassis normally have 85 V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. **c**. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a**. near sharp edges, **b**. near thermally hot parts — be sure that leads and components do not touch thermally hot parts, **c**. the AC supply, **d**. high voltage, and **e**. antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components, and between components and the printed-circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** — Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified Hitachi service data by shading on schematics and by a ( ⚠ ) in the parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of Service literature may be obtained at a normal charge from Hitachi.

## SERVICING PRECAUTIONS

**CAUTION:** Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 2 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 2 of this publication, always follow the safety precautions. Remember: Safety First.

### General Servicing Precautions

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
   **Caution:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
   The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed then the bleeder resistor is defective or the bleeder ground is disconnected.
3. Discharge the picture tubes anode at any of the R, G, or B outputs on the High Voltage distribution box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemical on or near this instrument or any of its assemblies.
5. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90% - 99% strength).
   **Caution:** This is a flammable mixture.
   Unless specified otherwise in these service data, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
9. Use with this instrument only the test fixtures specified in this service data.
   **CAUTION:** Do not connect the test fixture ground strap to any heatsink in this instrument.

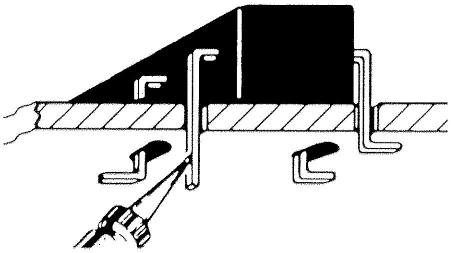
### Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   **CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

### General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an antistatic, suction-type solder removal device or with solder braid.
   **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   **CAUTION:** Work quickly to avoid overheating the circuit board printed foil or components.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron To Pry Leads

### IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas.)

### "Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

### Power Output Transistor Devices Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the circuit board.
4. Insert new transistor in circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

### Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and, if necessary, apply additional solder.

### Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.
2. Securely crimp leads of replacement component around stake 1/8 inch from top.
3. Solder the connections.

   **CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

### Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off", the board. The following guidelines and procedures should be followed whenever this condition is encountered.

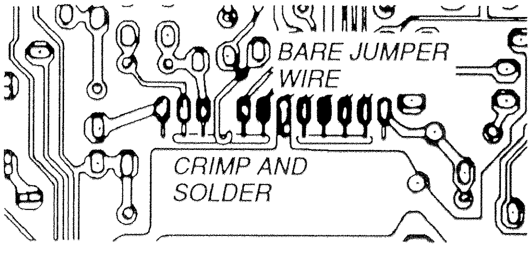
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern and is identified and illustrated in this service data in the section titled Safety Related Copper Pattern (see table of contents for page number). Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

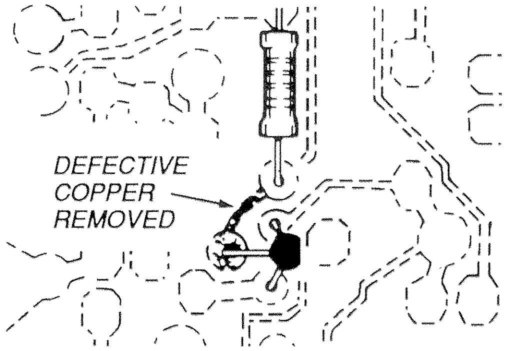


Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wirer from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

   **CAUTION:** Be sure the insulated jumper wirer is dressed so that it does not touch components or sharp edges.

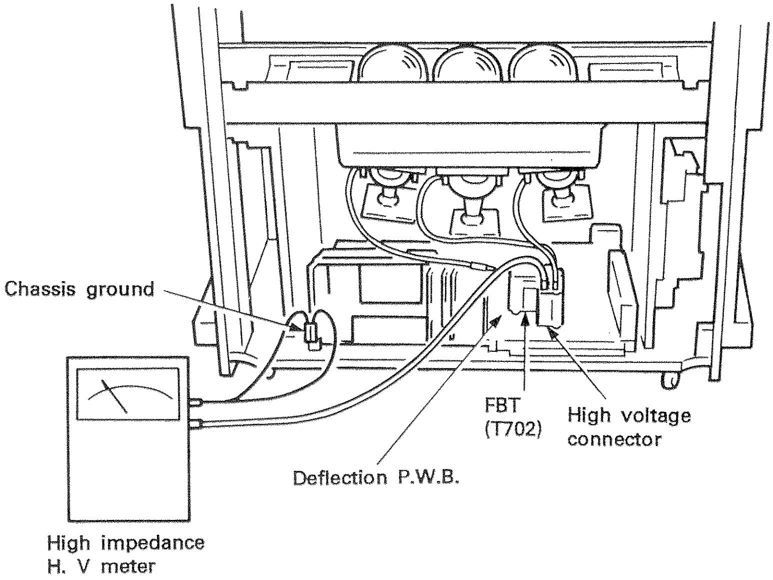
### Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or reinserting FS tuning system modules.
2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.
3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

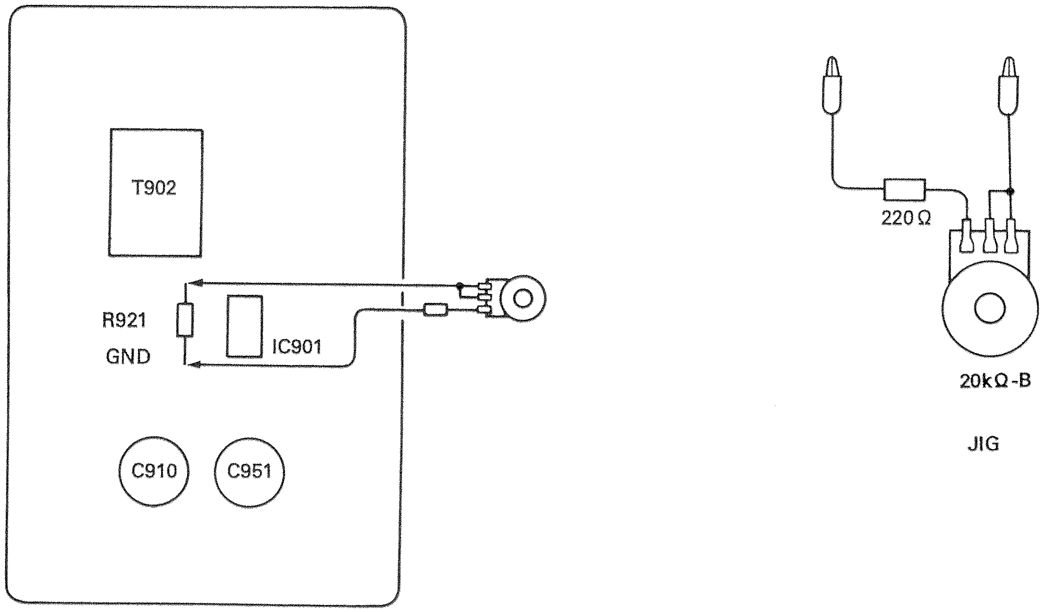
# TECHNICAL CAUTIONS

High voltage limiter circuit operation check

1. Connect the high voltage voltmeter between the high voltage connector and chassis ground as shown Fig. 2.
2. Set the AC input voltage to 120V.
3. Set picture and black level control fully to + side (max.) of the on-screen indication.
4. Connect the jig as shown in Fig. 2 to POWER SUPPLY P.W.B.
5. Turn the 20 kΩ-B VR of the jig fully clockwise viewed from the knob side.
6. Turn on the set.
7. Gradually turn the 20 kΩ-B VR of the jig counterclockwise and check that the picture disappears when the high voltage is less than 38kV.
8. Turn off the set immediately after checking that the picture disappears.
9. Remove the jig and voltmeter.


Chassis ground
FBT (T702)
High voltage connector
Deflection P.W.B.
High impedance H. V meter

POWER SUPPLY P.W.B. (Front view)


T902
R921
GND
IC901
C910
C951
220Ω
20kΩ-B

JIG

Fig. 2

## SPECIFICATIONS

Model: 50UX7 B / K / W

Cathode-Ray tube: 80° defrection 7 inch. (180CZB22R/180CGB22G/ 180CZB22B)

Power Input: 120 volts AC, 60Hz

Power Consumption: 310 watts – Maximum
210 watts – Operating

Antenna Impedance: 75 ohm Unbalanced
VHF/UHF/CATV

Receiving Channel:

| | CH |
|---|---|
| VHF | 2-13 |
| UHF | 14-69 |
| EXT. Mid | (A-2)-(A-1), 4⁺ |
| CATV Mid | A-I |
| CATV Super | J-W |
| CATV Hyper | (W + 1)-(W + 28) |
| CATV Ultra | (W + 29)-(W + 53) |

Intermediate Frequency: Picture I-F Carrier 45.75 MHz
Sound I-F Carrier 41.25 MHz
Color Sub Carrier 42.17MHz

Video Input: 1 Voltp-p 75 ohm

Video Output: 1 Voltp-p 75 ohm

Audio Input: 0.4 volt rpm, 40 k ohm

Stereo Audio Output: 0.4 volt rpm, 1 k ohm

Audio Output Power: Front – 10 watts rms per channel, 8 ohm impedance.
Rear – 5 watts rms per channel, 8 ohm impedance.

Anode Voltage: 30.0 kV (Zero Beam Current)

Brightness: 500 ft-L Nominal (Peak White)

Speakers: 2 Woofers – 6 inch (16 cm) round
2 Tweeters – 2 inch (5 cm) round

Dimension: Width ... 43-5/32
Height .. 51-57/64
Depth ... 26-31/64

Circuit Board Assemblies: CPT (B) P.C.B
CPT (G) P.C.B
CPT (R) P.C.B
Convergence Correction P.C.B
Signal P.C.B
Power Supply P.C.B
Deflection P.C.B
3-Way P.C.B
Pro-Logic P.C.B
P in P Selector P.C.B
SP Terminal P.C.B
Control P.C.B

---

## CIRCUIT PROTECTION

| Fuse (or Device) | Circuit Protected | Physical location |
|---|---|---|
| F901 5.0A-125V (AC) | Main Fuse | Signal Circuit Board |
| F903 4.0A-125V (DC) | 〃 | Power Supply Circuit Board |
| F904 4.0A-125V (DC) | Audio Output Circuit | Power Supply Circuit Board |
| F905 1.6A-125V (DC) | Deflection Circuit | Power Supply Circuit Board |

# GENERAL INFORMATION

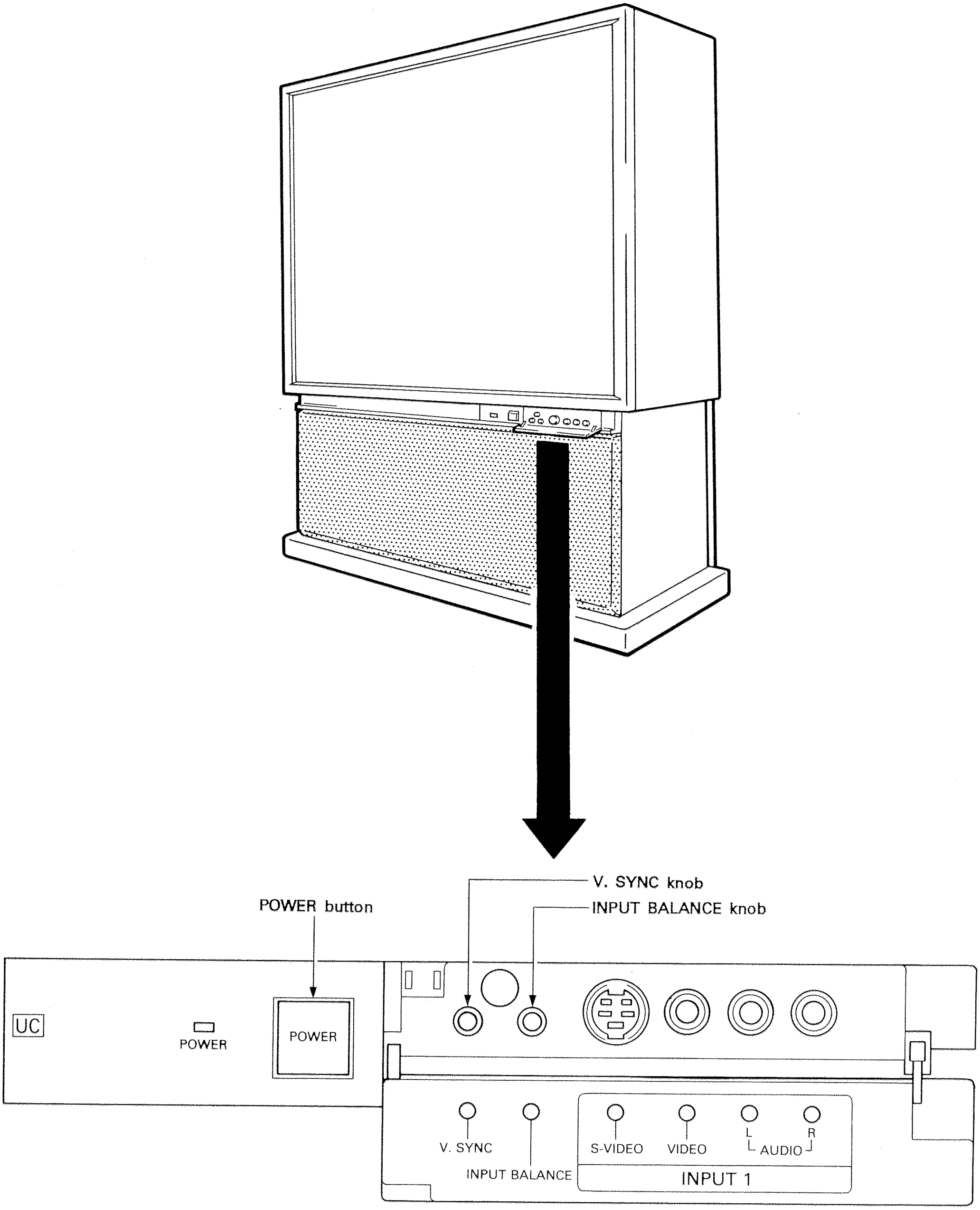

V. SYNC knob
INPUT BALANCE knob
POWER button
UC
POWER
POWER
V. SYNC
INPUT BALANCE
S-VIDEO
VIDEO
L
R
AUDIO
INPUT 1

**Fig. 3 Control panel**

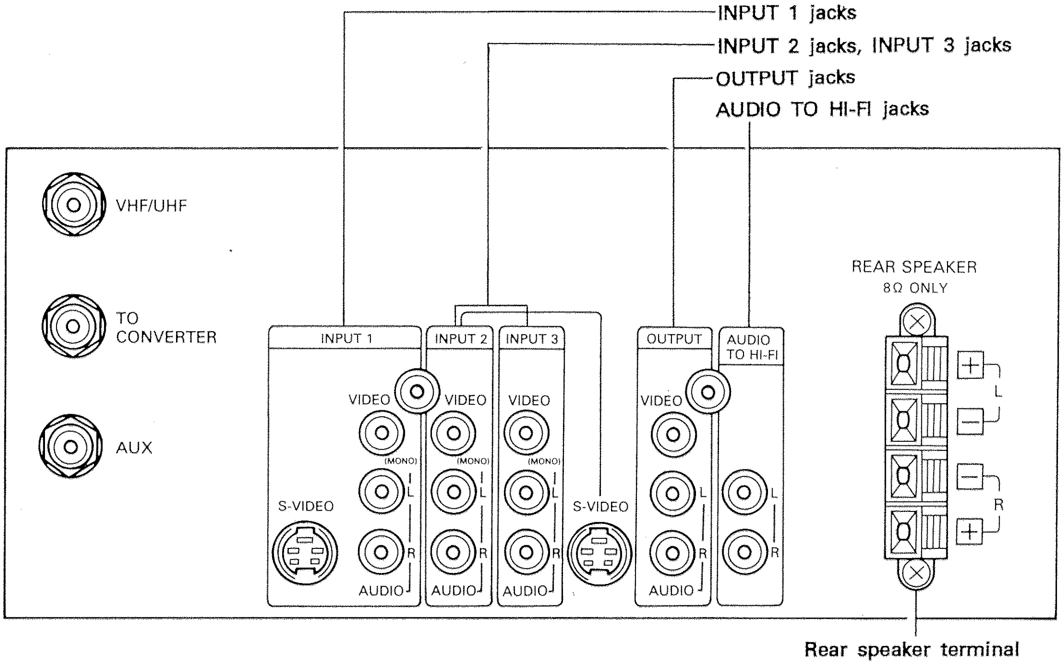
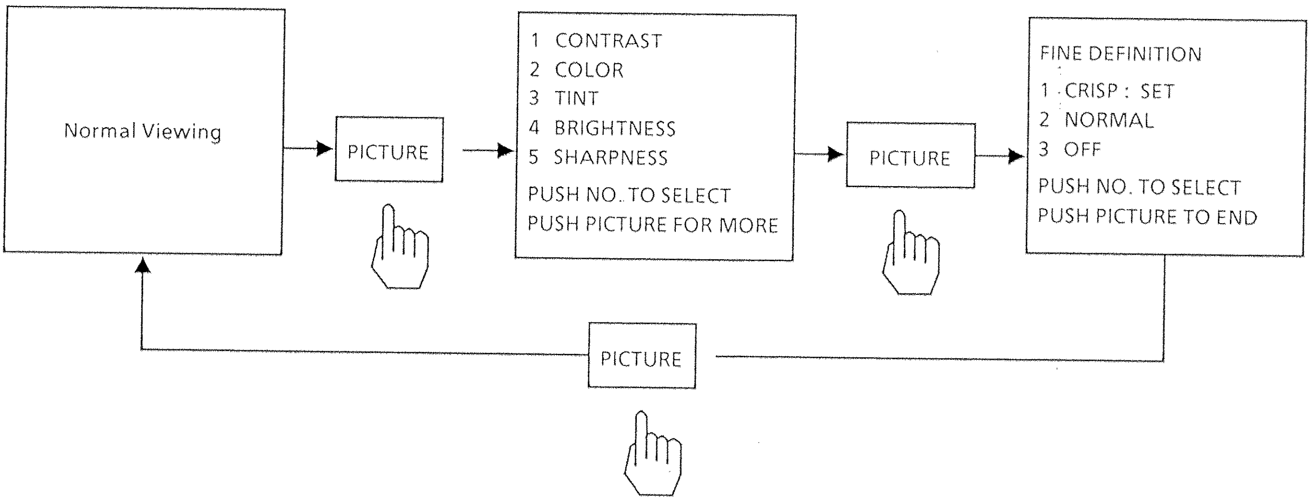

INPUT 1 jacks
INPUT 2 jacks, INPUT 3 jacks
OUTPUT jacks
AUDIO TO HI-FI jacks
VHF/UHF
TO CONVERTER
AUX
INPUT 1
INPUT 2
INPUT 3
OUTPUT
AUDIO TO HI-FI
VIDEO
(MONO)
L
R
AUDIO
S-VIDEO
REAR SPEAKER
8Ω ONLY
+
−
Rear speaker terminal

Fig. 4 Monitor connection panel

# ADJUSTING FOR PICTURE AND SOUND FUNCTIONS

PICTURE BUTTON

Press this button to display the following picture adjustment:

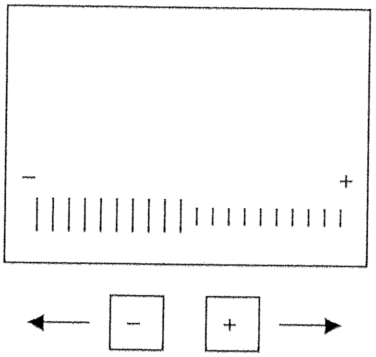

Normal Viewing
PICTURE
1 CONTRAST
2 COLOR
3 TINT
4 BRIGHTNESS
5 SHARPNESS
PUSH NO. TO SELECT
PUSH PICTURE FOR MORE
PICTURE
FINE DEFINITION
1 CRISP : SET
2 NORMAL
3 OFF
PUSH NO. TO SELECT
PUSH PICTURE TO END
PICTURE

Example – "CONTRAST" adjustment

(1) Press "PICTURE" button on Remote Control once displyas Picture menu.

1 CONTRAST
2 COLOR
3 TINT
4 BRIGHTNESS
5 SHARPNESS
PUSH NO. TO SELECT
PUSH PICTURE FOR MORE

(2) Press number button "1" to select CONTRAST.



Press " – " button to decrease contrast, or
press " + " button to increase contrast.

## Adjustment for Picture

- CONTRAST adjustment

The "CONTRAST" function adjusts the overall brightness and contrast of the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "1" to select CONTRAST.
(3) Press " + " button repeatedly to increase contrast, or press " – " button repeatedly to decrease contrast.

- COLOR adjustment

The "COLOR" function adjusts the amount of color in the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "2" to select COLOR.
(3) Press " + " button repeatedly to inclease color, or press " – " button repeately to decrease color.

- TINT adjustment

The "TINT" function adjusts the color of flesh tones.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press numer button "3" to select TINT.
(3) Press " + " button repeatedly to add more red tint, or press " – " button repeatedly to add more green tint.

- BRIGHTNESS

The "BRIGHTNESS" function adjusts the brightness of the dark portion of the picture.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number button "4" to select BRIGHTNESS.
(3) Press " + " button repeatedly to increase brightness, or press " – " button repeatedly to decrease brightness.

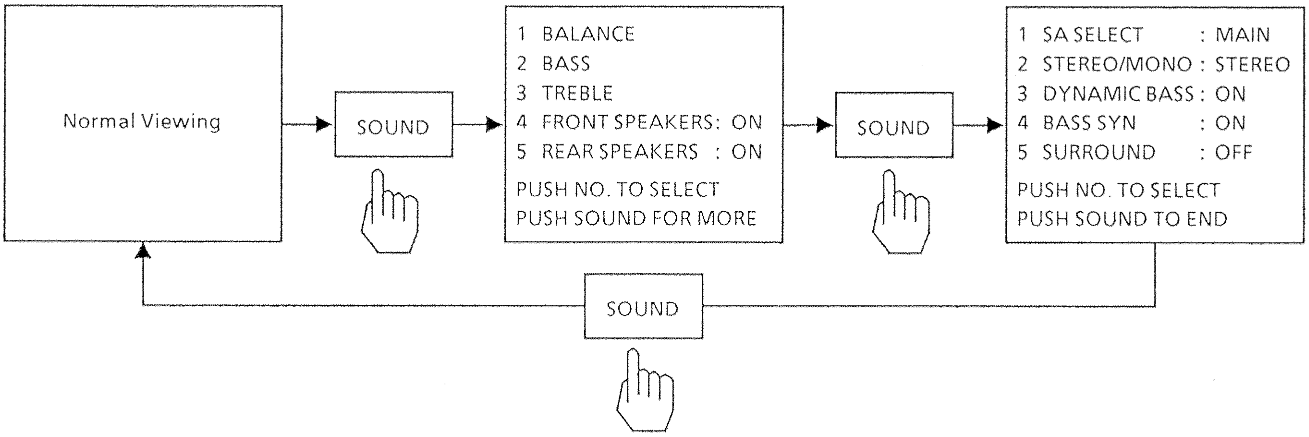
- SHARPNESS

The "SHARPNESS" function adjusts picture sharpness.

(1) Press PICTURE button once to get Picture adjustment menu.
(2) Press number btton "5" to select SHARPNESS.
(3) Press " + " button repeatedly to increase sharpness, or press " – " button repeatedly to decrease sharpness.

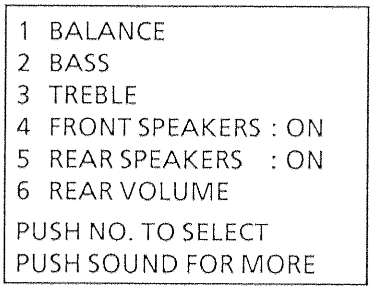
## SOUND BUTTON

Press this button to display the following sound adjustment:


Normal Viewing
SOUND
1 BALANCE
2 BASS
3 TREBLE
4 FRONT SPEAKERS: ON
5 REAR SPEAKERS : ON
PUSH NO. TO SELECT
PUSH SOUND FOR MORE
SOUND
1 SA SELECT : MAIN
2 STEREO/MONO : STEREO
3 DYNAMIC BASS : ON
4 BASS SYN : ON
5 SURROUND : OFF
PUSH NO. TO SELECT
PUSH SOUND TO END
SOUND

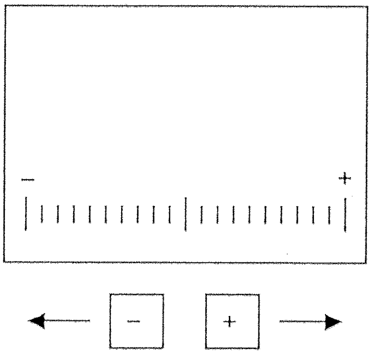
Example – "TREBLE" adjustment

(1) Press "SOUND" button on remote control once displyas Sound menu.



1 BALANCE
2 BASS
3 TREBLE
4 FRONT SPEAKERS : ON
5 REAR SPEAKERS : ON
6 REAR VOLUME
PUSH NO. TO SELECT
PUSH SOUND FOR MORE

(2) Press number button "3" to select TREBLE.



Press " – " button to decrease treble, or press " + " button to increase treble.

## Adjustment for Sound

- **BALANCE adjustment**

The "BALANCE" function adjusts the right / left balance of sound from the speakers.

(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "1" to select BALANCE.
(3) Press " + " button repeatedly to increase sound level from right speaker, or press " – " button repeatedly to increase sound level from left speaker.

- **BASS adjustment**

The "BASS" function adjusts the low frequancy audio.

(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "2" to select BASS.
(3) Press " + " button repeatedly to increase bass, or press " – " button repeatedly to decrease bass.

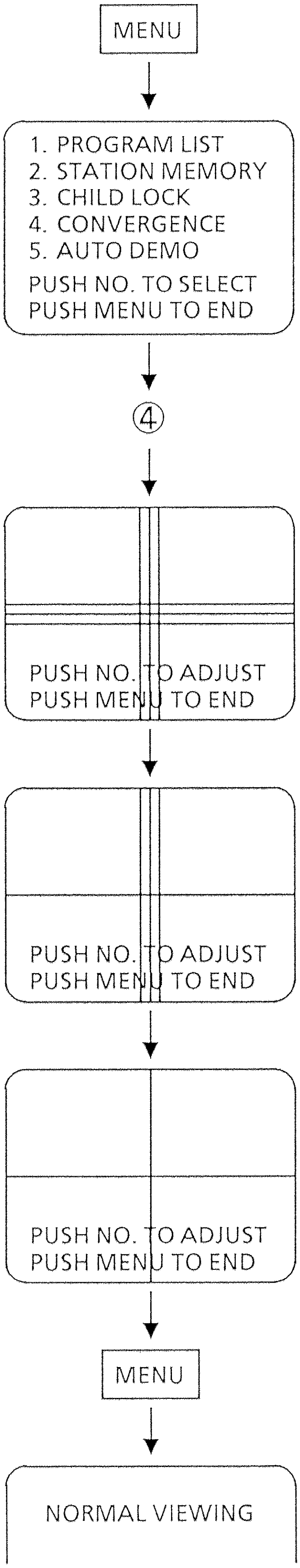
- **TREBLE adjustment**

The "TREBLE" function adjusts the high frequancy audio.

(1) Press SOUND button once to get Sound adjustment menu.
(2) Press number button "3" to select TREBLE.
(3) Press " + " button repeatedly to increase bass, or press " – " button repeatedly to decrease bass.

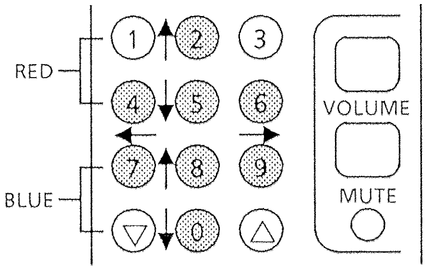
# CONVERGENCE ADJUSTMENT

Static Convergence

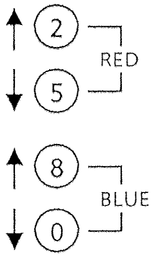

MENU
1. PROGRAM LIST
2. STATION MEMORY
3. CHILD LOCK
4. CONVERGENCE
5. AUTO DEMO
PUSH NO. TO SELECT
PUSH MENU TO END
④
PUSH NO. TO ADJUST
PUSH MENU TO END
PUSH NO. TO ADJUST
PUSH MENU TO END
PUSH NO. TO ADJUST
PUSH MENU TO END
MENU
NORMAL VIEWING

Use button on Remote to align colors to form white lines

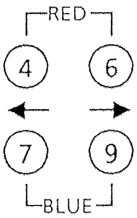
Remote Control


RED
BLUE
1
2
3
4
5
6
7
8
9
▽
0
△
VOLUME
MUTE

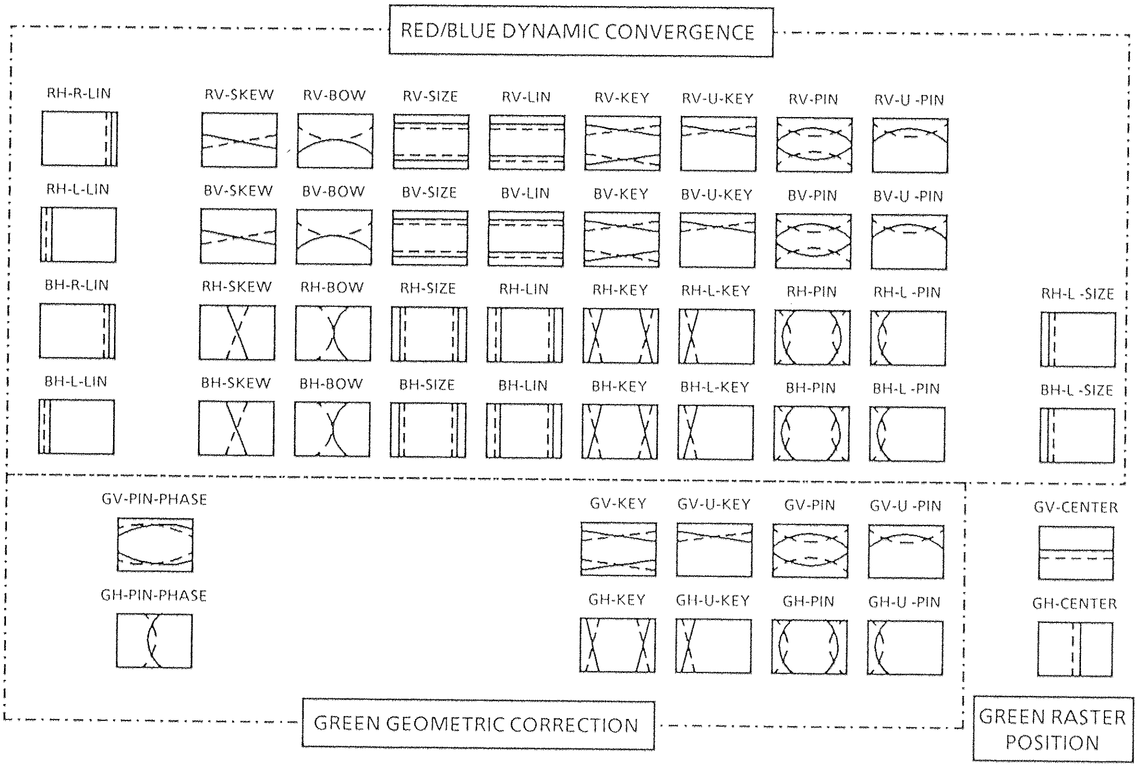
Vertical Position


2
RED
5
8
BLUE
0

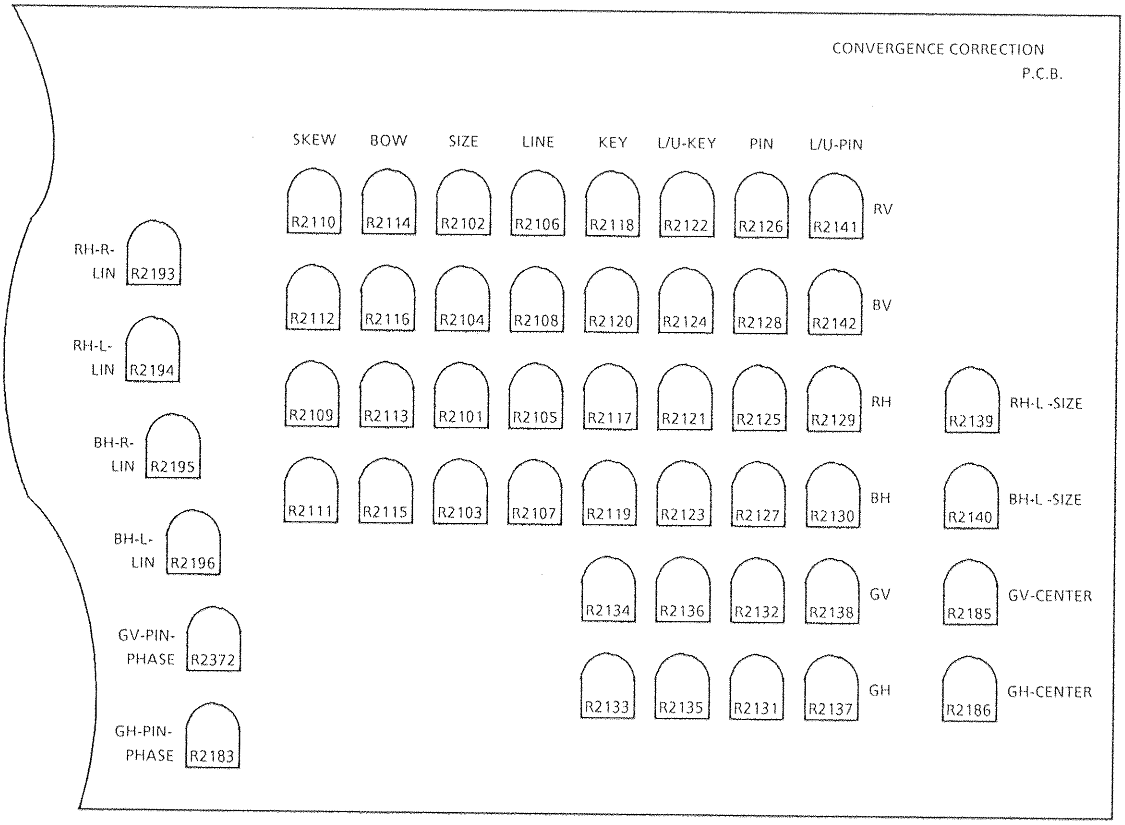
Horizontal Position


RED
4
6
7
9
BLUE

## Dynamic Convergence


RED/BLUE DYNAMIC CONVERGENCE
RH-R-LIN
RV-SKEW
RV-BOW
RV-SIZE
RV-LIN
RV-KEY
RV-U-KEY
RV-PIN
RV-U -PIN
RH-L-LIN
BV-SKEW
BV-BOW
BV-SIZE
BV-LIN
BV-KEY
BV-U-KEY
BV-PIN
BV-U -PIN
BH-R-LIN
RH-SKEW
RH-BOW
RH-SIZE
RH-LIN
RH-KEY
RH-L-KEY
RH-PIN
RH-L -PIN
RH-L -SIZE
BH-L-LIN
BH-SKEW
BH-BOW
BH-SIZE
BH-LIN
BH-KEY
BH-L-KEY
BH-PIN
BH-L -PIN
BH-L -SIZE
GV-PIN-PHASE
GV-KEY
GV-U-KEY
GV-PIN
GV-U -PIN
GV-CENTER
GH-PIN-PHASE
GH-KEY
GH-U-KEY
GH-PIN
GH-U -PIN
GH-CENTER
GREEN GEOMETRIC CORRECTION
GREEN RASTER POSITION

## Layout of the Adjustment VR


CONVERGENCE CORRECTION P.C.B.
SKEW
BOW
SIZE
LINE
KEY
L/U-KEY
PIN
L/U-PIN
R2110
R2114
R2102
R2106
R2118
R2122
R2126
R2141
RV
RH-R-LIN
R2193
R2112
R2116
R2104
R2108
R2120
R2124
R2128
R2142
BV
RH-L-LIN
R2194
R2109
R2113
R2101
R2105
R2117
R2121
R2125
R2129
RH
R2139
RH-L -SIZE
BH-R-LIN
R2195
R2111
R2115
R2103
R2107
R2119
R2123
R2127
R2130
BH
R2140
BH-L -SIZE
BH-L-LIN
R2196
R2134
R2136
R2132
R2138
GV
R2185
GV-CENTER
GV-PIN-PHASE
R2372
R2133
R2135
R2131
R2137
GH
R2186
GH-CENTER
GH-PIN-PHASE
R2183

## CAUTIONS WHEN CONNECTING / DISCONNECTING THE HV CONNECTOR

Perform the following when the HV connector (anode connector) is removed or inserted for CPT replacement, etc.

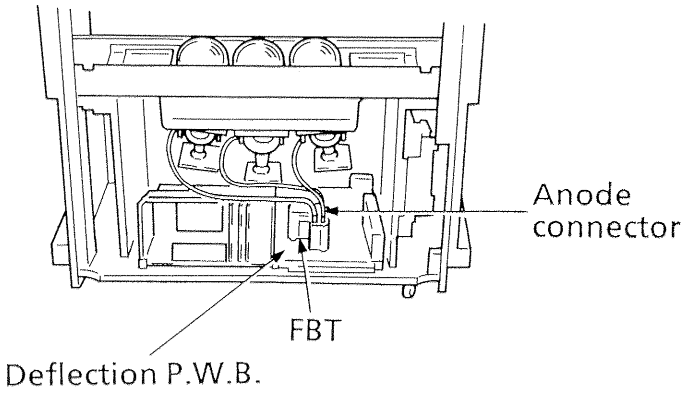

Anode connector
FBT
Deflection P.W.B.

Fig. 5

- **During removal**

(1) Insert a small flat-bladed screwdriver (adjustment screwdriver : 5 - 7 mm wide and 0.2 - 0.3 mm thick) into section Ⓐ in Fig.6 and then push it in the direction of arrow Ⓑ. The lock will release with a click. (The state in Fig.8 - (1) will change to that in Fig.8 - (2).)

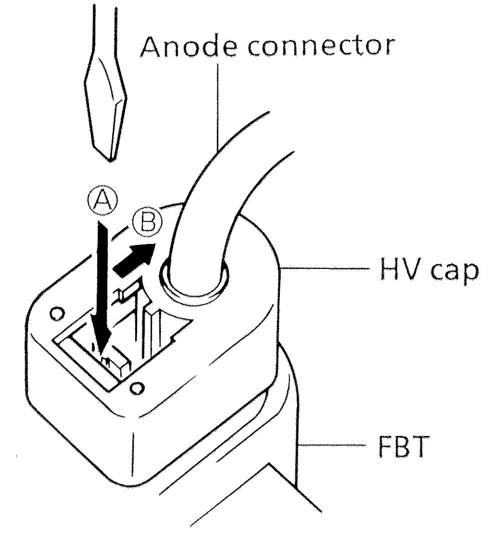

Anode connector
Ⓐ
Ⓑ
HV cap
FBT

Fig. 6

(2) Remove the HV cap and remove the anode connector (Fig. 7).

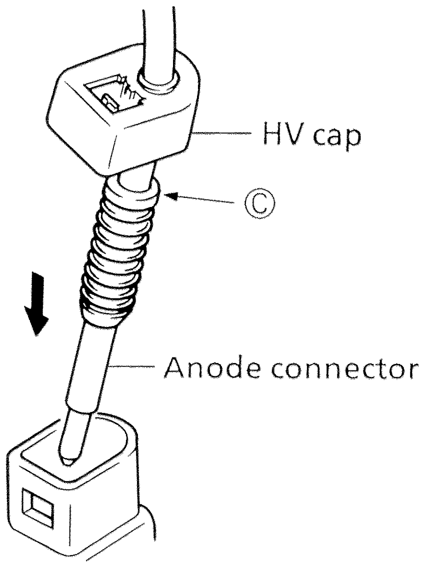
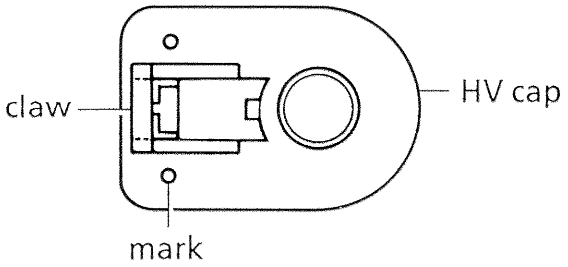

HV cap
Ⓒ
Anode connector

Fig. 7

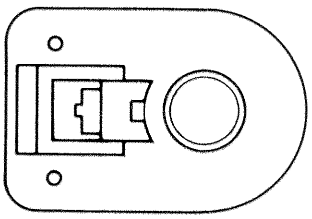
- **During insertion**

(1) Insert the anode connector deep into the FBT (to section Ⓒ in Fig.7) and then push the HV cap into the FBT until it clicks.

(2) Make sure the connector is securely inserted. (Check that the claw is at the mark on the HV cap shown as in Fig.8 - (1).)


claw
HV cap
mark

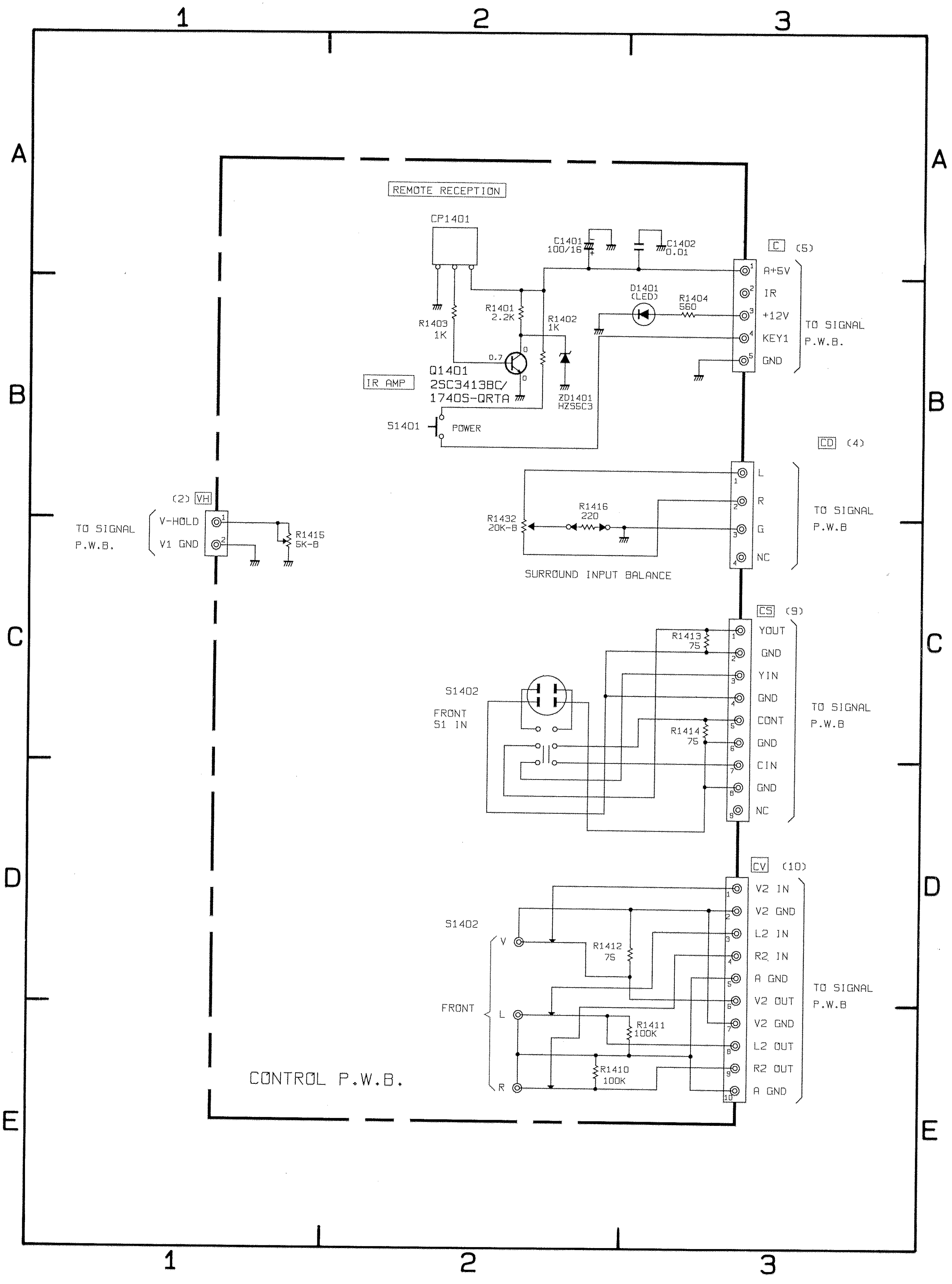
(1) Lock on
(When connector is inserted)



(2) Release
(When connector is removed)

Fig. 8

# CIRCUIT DIAGRAM


1
2
3
A
B
C
D
E
REMOTE RECEPTION
CP1401
C1401
100/16
C1402
0.01
R1401
2.2K
R1402
1K
R1403
1K
0.7
0
0
Q1401
2SC3413BC/
1740S-QRTA
IR AMP
ZD1401
HZS5C3
D1401
(LED)
R1404
560
S1401
POWER
C (5)
A+5V
IR
+12V
KEY1
GND
TO SIGNAL
P.W.B.
CD (4)
L
R
G
NC
R1416
220
R1432
20K-B
SURROUND INPUT BALANCE
TO SIGNAL
P.W.B
(2) VH
V-HOLD
V1 GND
R1415
5K-B
TO SIGNAL
P.W.B.
CS (9)
YOUT
GND
YIN
GND
CONT
GND
CIN
GND
NC
R1413
75
R1414
75
S1402
FRONT
S1 IN
TO SIGNAL
P.W.B
CV (10)
V2 IN
V2 GND
L2 IN
R2 IN
A GND
V2 OUT
V2 GND
L2 OUT
R2 OUT
A GND
S1402
V
FRONT
L
R
R1412
75
R1411
100K
R1410
100K
TO SIGNAL
P.W.B
CONTROL P.W.B.

## BASIC CIRCUIT DIAGRAM

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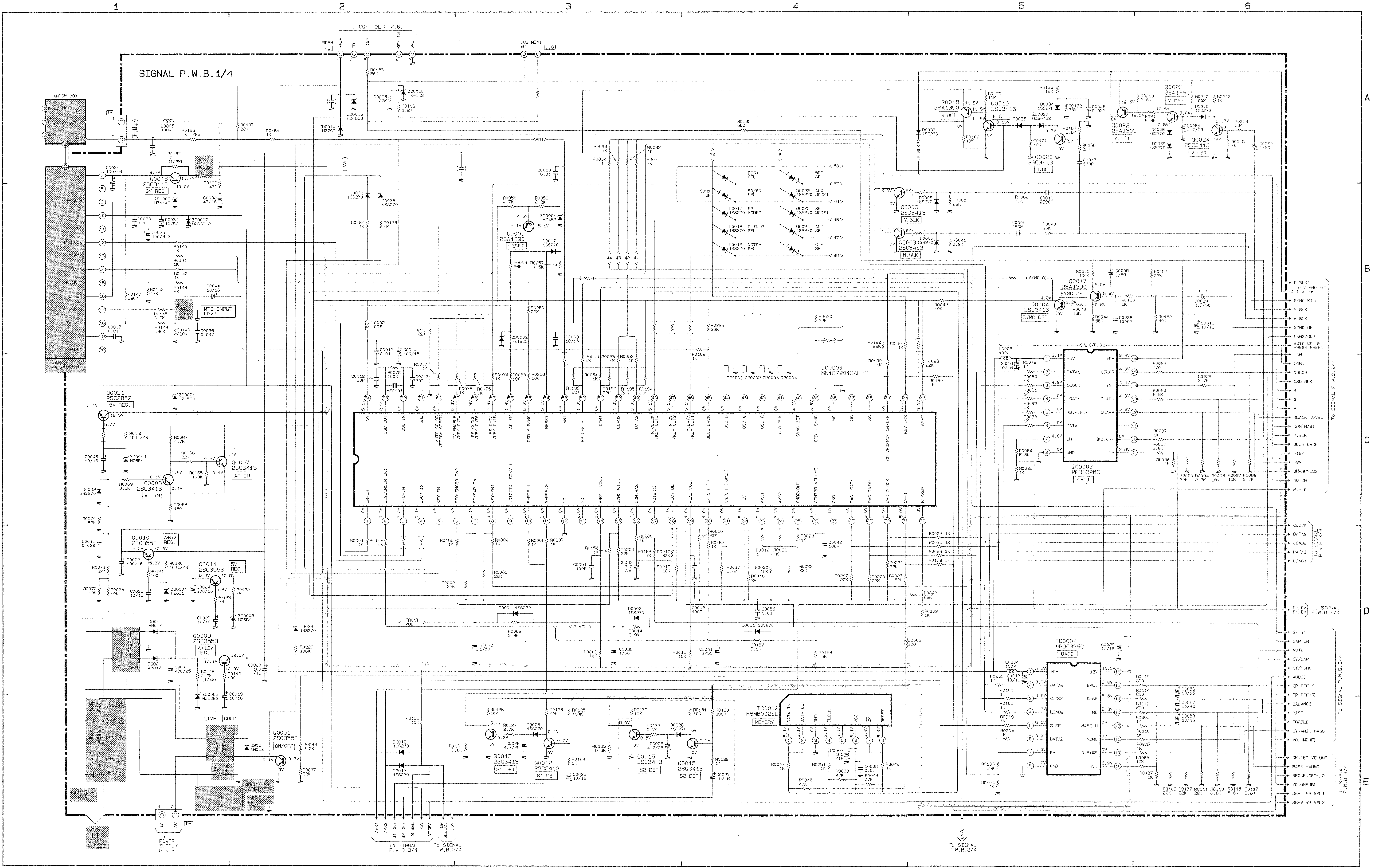
SIGNAL P.W.B.1/4
To CONTROL P.W.B.
SUB MINI 2P
ANTSW BOX
VHF/UHF
To CONVERTER +12V
AUX
ANT
FE0001 ⚠ V8-A58F7
Q0016 2SC3116 9V REG.
Q0021 2SC3852 5V REG.
Q0007 2SC3413 AC IN
Q0008 2SC3413 AC.IN
Q0010 2SC3553 A+5V REG.
Q0011 2SC3553 5V REG.
Q0009 2SC3553 A+12V REG.
Q0001 2SC3553 ON/OFF
Q0005 2SA1390 RESET
MTS INPUT LEVEL
IC0001 MN1872012AHHF
IC0002 M6M80021L MEMORY
IC0003 μPD6326C DAC1
IC0004 μPD6326C DAC2
Q0018 2SA1390 H.DET
Q0019 2SC3413 H.DET
Q0020 2SC3413 H.DET
Q0022 2SA1309 V.DET
Q0023 2SA1390 V.DET
Q0024 2SC3413 V.DET
Q0006 2SC3413 V.BLK
Q0003 2SC3413 H.BLK
Q0017 2SA1390 SYNC DET
Q0004 2SC3413 SYNC DET
Q0013 2SC3413 S1 DET
Q0012 2SC3413 S1 DET
Q0015 2SC3413 S2 DET
LIVE COLD
CAPRISTOR
To POWER SUPPLY P.W.B.
To SIGNAL P.W.B.3/4
To SIGNAL P.W.B.2/4
To SIGNAL P.W.B.4/4
GND SIDE
1 2 3 4 5 6
A B C D E

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

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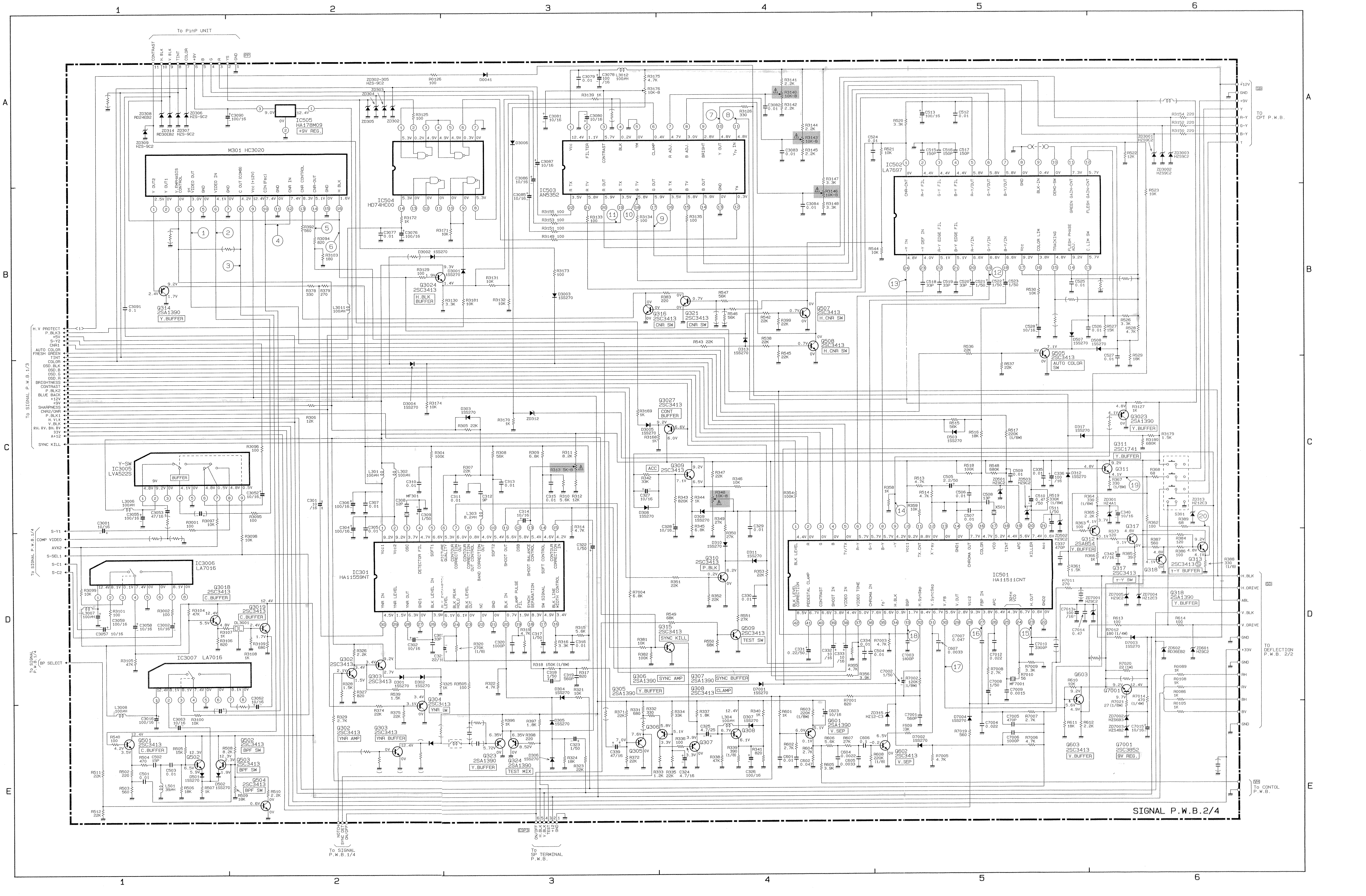
## BASIC CIRCUIT DIAGRAM


To PinP UNIT
M301 HC3020
IC505 HA178M09
+9V REG.
IC504 HD74HC00
IC503 AN5352
IC502 LA7697
To CPT P.W.B.
Q314 2SA1390 Y.BUFFER
Q3024 2SC3413 H.BLK BUFFER
Q316 2SC3413 CNR SW
Q321 2SC3413 CNR SW
Q507 2SC3413 H.CNR SW
Q508 2SC3413 H.CNR SW
Q505 2SC3413 AUTO COLOR SW
To SIGNAL P.W.B.1/3
Q3027 2SC3413 CONT BUFFER
Q3023 2SA1390 Y.BUFFER
Q311 2SC1741 Y.BUFFER
Y-SW IC3005 LVA522S
BUFFER
IC301 HA11559NT
Q309 2SC3413 ACC
Q310 2SC3413 P.BLK
Q315 2SC3413 SYNC KILL
Q509 2SC3413 TEST SW
IC501 HA11511CNT
Q312 2SA854 Y.BUFFER
Q317 2SC3413 T-Y SW
Q313 2SC3413 T-Y BUFFER
Q318 2SA1390 Y.BUFFER
To SIGNAL P.W.B.1/4
IC3006 LA7016
Q3018 2SC3413 C.BUFFER
Q3019 2SC3413 C.BUFFER
IC3007 LA7016
Q302 2SC3413 YNR AMP
Q303 2SC3413 YNR BUFFER
Q304 2SC3413 YNR SW
Q306 2SA1390 SYNC AMP
Q307 2SA1390 SYNC BUFFER
Q305 2SA1390 Y.BUFFER
Q308 2SC3413 CLAMP
Q323 2SA1390 Y.BUFFER
Q324 2SA1390 TEST MIX
Q501 2SC3413 C.BUFFER
Q502 2SC3413 BPF SW
Q503 2SC3413 BPF SW
Q504 2SC3413 BPF SW
Q601 2SA1390 V.SEP
Q602 2SC3413 V.SEP
Q603 2SC3413 V.BUFFER
Q7001 2SC3852 9V REG.
To DEFLECTION P.W.B. 2/2
To CONTOL P.W.B.
To SIGNAL P.W.B.1/4
To SP TERMINAL P.W.B.
SIGNAL P.W.B.2/4

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- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

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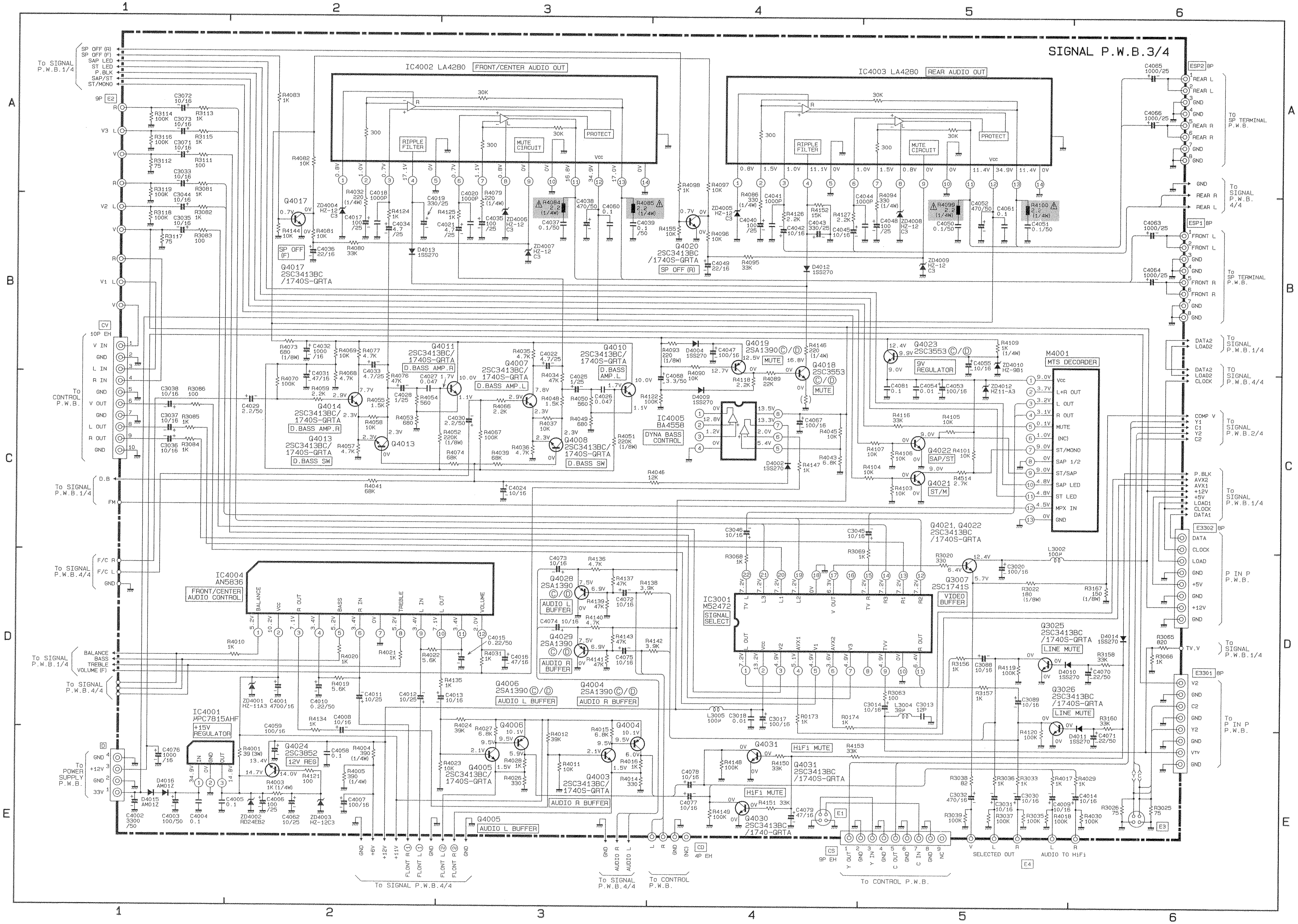
# BASIC CIRCUIT DIAGRAM


SIGNAL P.W.B.3/4
IC4002 LA4280 FRONT/CENTER AUDIO OUT
IC4003 LA4280 REAR AUDIO OUT
RIPPLE FILTER
MUTE CIRCUIT
PROTECT
IC4004 AN5836 FRONT/CENTER AUDIO CONTROL
IC4005 BA4558 DYNA BASS CONTROL
IC3001 M52472 SIGNAL SELECT
M4001 MTS DECORDER
IC4001 μPC7815AHF +15V REGULATOR
Q4017 2SC3413BC/1740S-QRTA SP OFF (F)
Q4020 2SC3413BC/1740S-QRTA SP OFF (R)
Q4011 2SC3413BC/1740S-QRTA D.BASS AMP.R
Q4007 2SC3413BC/1740S-QRTA D.BASS AMP.L
Q4010 2SC3413BC/1740S-QRTA D.BASS AMP.L
Q4014 2SC3413BC/1740S-QRTA D.BASS AMP.R
Q4013 2SC3413BC/1740S-QRTA D.BASS SW
Q4008 2SC3413BC/1740S-QRTA D.BASS SW
Q4019 2SA1390 MUTE
Q4018 2SC3553 MUTE
Q4023 2SC3553 9V REGULATOR
Q4022 SAP/ST
Q4021 ST/M
Q4021, Q4022 2SC3413BC/1740S-QRTA
Q3007 2SC1741S VIDEO BUFFER
Q3025 2SC3413BC/1740S-QRTA LINE MUTE
Q3026 2SC3413BC/1740S-QRTA LINE MUTE
Q4028 2SA1390 AUDIO L BUFFER
Q4029 2SA1390 AUDIO R BUFFER
Q4006 2SA1390 AUDIO L BUFFER
Q4004 2SA1390 AUDIO R BUFFER
Q4005 2SC3413BC/1740S-QRTA AUDIO L BUFFER
Q4003 2SC3413BC/1740S-QRTA AUDIO R BUFFER
Q4024 2SC3852 12V REG
Q4031 2SC3413BC/1740S-QRTA HiFi MUTE
Q4030 2SC3413BC/1740-QRTA HiFi MUTE
To SIGNAL P.W.B.1/4
To CONTROL P.W.B.
To SIGNAL P.W.B.4/4
To POWER SUPPLY P.W.B.
To SP TERMINAL P.W.B.
To SIGNAL P.W.B.2/4
To P IN P P.W.B.
To SIGNAL P.W.B. 4/4
To CONTROL P.W.B.
SELECTED OUT
AUDIO TO HiFi
A
B
C
D
E
1
2
3
4
5
6

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# BASIC CIRCUIT DIAGRAM

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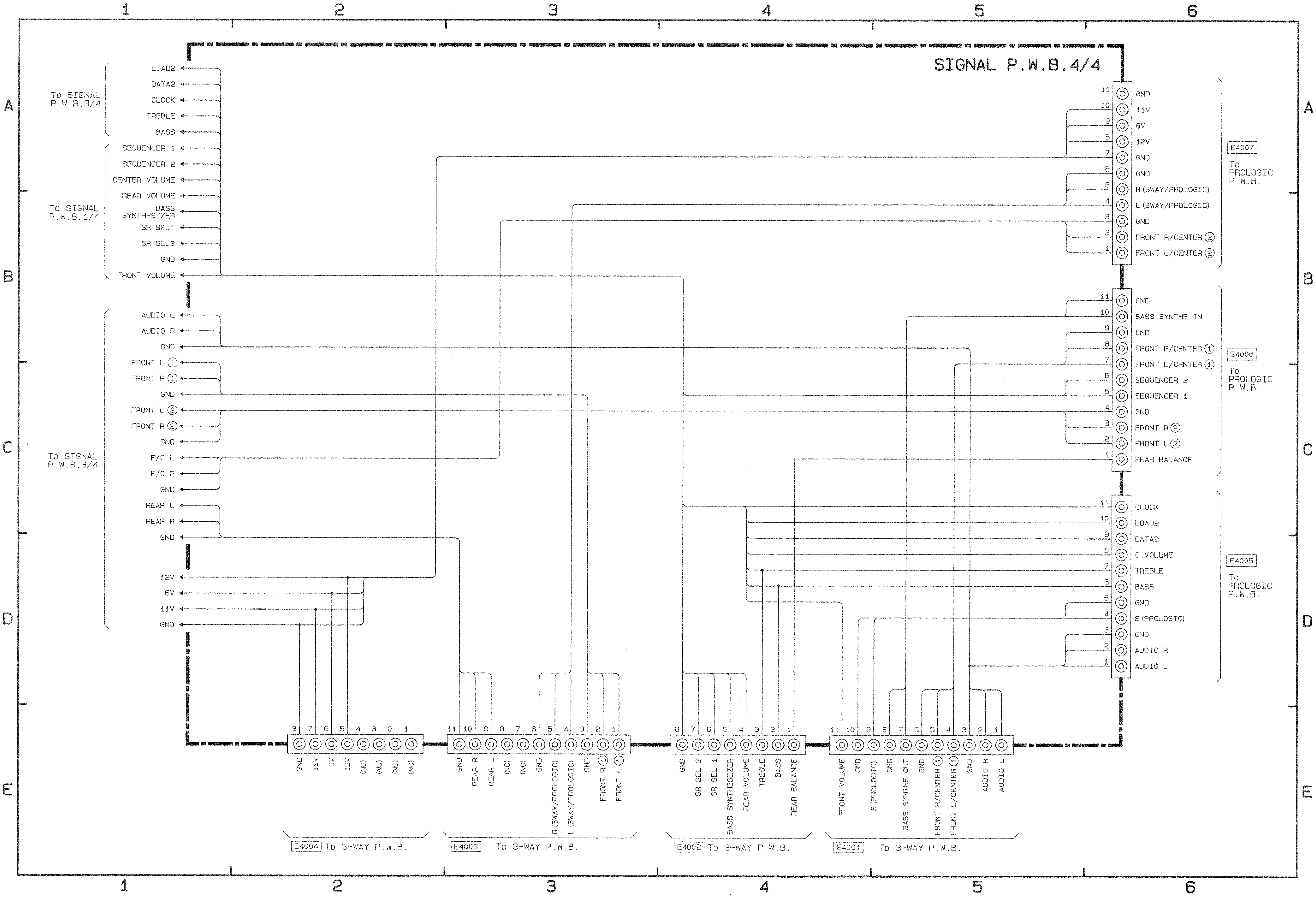

1
2
3
4
5
6
A
B
C
D
E
SIGNAL P.W.B.4/4
To SIGNAL P.W.B.3/4
LOAD2
DATA2
CLOCK
TREBLE
BASS
To SIGNAL P.W.B.1/4
SEQUENCER 1
SEQUENCER 2
CENTER VOLUME
REAR VOLUME
BASS SYNTHESIZER
SR SEL1
SR SEL2
GND
FRONT VOLUME
To SIGNAL P.W.B.3/4
AUDIO L
AUDIO R
GND
FRONT L ①
FRONT R ①
GND
FRONT L ②
FRONT R ②
GND
F/C L
F/C R
GND
REAR L
REAR R
GND
12V
6V
11V
GND
E4007
To PROLOGIC P.W.B.
11 GND
10 11V
9 6V
8 12V
7 GND
6 GND
5 R (3WAY/PROLOGIC)
4 L (3WAY/PROLOGIC)
3 GND
2 FRONT R/CENTER ②
1 FRONT L/CENTER ②
E4006
To PROLOGIC P.W.B.
11 GND
10 BASS SYNTHE IN
9 GND
8 FRONT R/CENTER ①
7 FRONT L/CENTER ①
6 SEQUENCER 2
5 SEQUENCER 1
4 GND
3 FRONT R②
2 FRONT L②
1 REAR BALANCE
E4005
To PROLOGIC P.W.B.
11 CLOCK
10 LOAD2
9 DATA2
8 C.VOLUME
7 TREBLE
6 BASS
5 GND
4 S (PROLOGIC)
3 GND
2 AUDIO R
1 AUDIO L
E4004 To 3-WAY P.W.B.
8 GND
7 11V
6 6V
5 12V
4 (NC)
3 (NC)
2 (NC)
1 (NC)
E4003 To 3-WAY P.W.B.
11 GND
10 REAR R
9 REAR L
8 (NC)
7 (NC)
6 GND
5 R (3WAY/PROLOGIC)
4 L (3WAY/PROLOGIC)
3 GND
2 FRONT R ①
1 FRONT L ①
E4002 To 3-WAY P.W.B.
8 GND
7 SR SEL 2
6 SR SEL 1
5 BASS SYNTHESIZER
4 REAR VOLUME
3 TREBLE
2 BASS
1 REAR BALANCE
E4001 To 3-WAY P.W.B.
11 FRONT VOLUME
10 GND
9 S (PROLOGIC)
8 GND
7 BASS SYNTHE OUT
6 GND
5 FRONT R/CENTER ①
4 FRONT L/CENTER ①
3 GND
2 AUDIO R
1 AUDIO L

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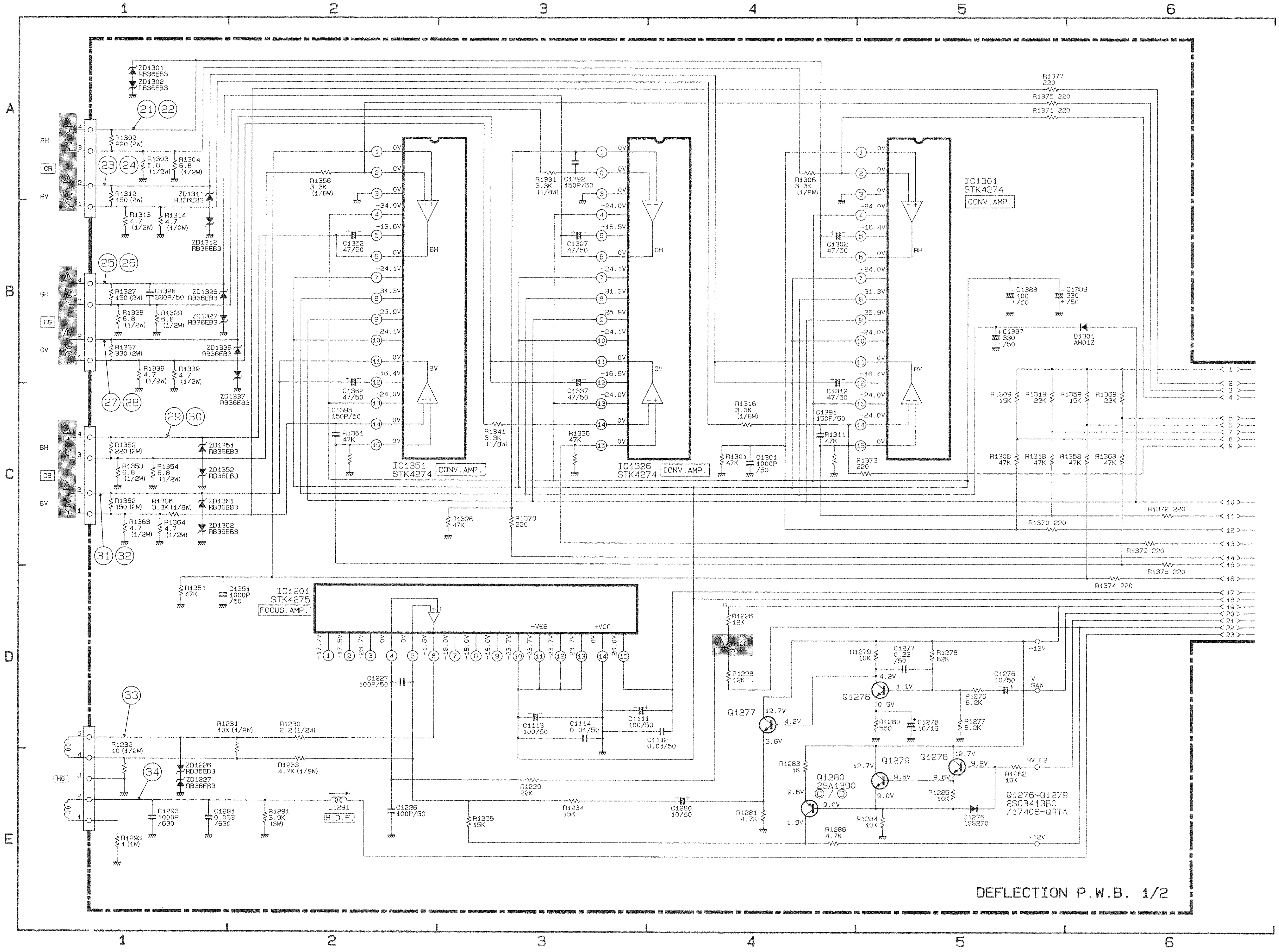
# BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
RH
CR
RV
GH
CG
GV
BH
CB
BV
HG
ZD1301 RB36EB3
ZD1302 RB36EB3
R1302 220 (2W)
R1303 6.8 (1/2W)
R1304 6.8 (1/2W)
R1312 150 (2W)
ZD1311 RB36EB3
R1313 4.7 (1/2W)
R1314 4.7 (1/2W)
ZD1312 RB36EB3
R1327 150 (2W)
C1328 330P/50
ZD1326 RB36EB3
R1328 6.8 (1/2W)
R1329 6.8 (1/2W)
ZD1327 RB36EB3
R1337 330 (2W)
ZD1336 RB36EB3
R1338 4.7 (1/2W)
R1339 4.7 (1/2W)
ZD1337 RB36EB3
R1352 220 (2W)
ZD1351 RB36EB3
R1353 6.8 (1/2W)
R1354 6.8 (1/2W)
ZD1352 RB36EB3
R1362 150 (2W)
R1366 3.3K (1/8W)
ZD1361 RB36EB3
R1363 4.7 (1/2W)
R1364 4.7 (1/2W)
ZD1362 RB36EB3
R1356 3.3K (1/8W)
C1352 47/50
C1362 47/50
C1395 150P/50
R1361 47K
IC1351 STK4274
CONV. AMP.
R1331 3.3K (1/8W)
C1392 150P/50
C1327 47/50
C1337 47/50
R1341 3.3K (1/8W)
R1336 47K
IC1326 STK4274
CONV. AMP.
R1306 3.3K (1/8W)
C1302 47/50
C1312 47/50
C1391 150P/50
R1311 47K
R1316 3.3K (1/8W)
R1301 47K
C1301 1000P /50
R1373 220
IC1301 STK4274
CONV. AMP.
R1377 220
R1375 220
R1371 220
C1388 100 /50
C1389 330 /50
C1387 330 /50
D1301 AM01Z
R1309 15K
R1319 22K
R1359 15K
R1369 22K
R1308 47K
R1318 47K
R1358 47K
R1368 47K
R1372 220
R1370 220
R1379 220
R1376 220
R1374 220
R1326 47K
R1378 220
0V
-24.0V
-16.6V
-24.1V
31.3V
25.9V
-16.4V
-16.5V
-24.0V
BH
BV
GH
GV
RH
R1351 47K
C1351 1000P /50
IC1201 STK4275
FOCUS. AMP.
-VEE
+VCC
-17.7V
-17.5V
-23.7V
0V
-1.6V
-18.0V
-23.7V
26.0V
C1227 100P/50
C1113 100/50
C1114 0.01/50
C1111 100/50
C1112 0.01/50
R1226 12K
R1227 5K
R1228 12K
G
R1231 10K (1/2W)
R1230 2.2 (1/2W)
R1232 10 (1/2W)
R1233 4.7K (1/8W)
ZD1226 RB36EB3
ZD1227 RB36EB3
R1229 22K
R1234 15K
C1280 10/50
R1235 15K
C1226 100P/50
C1293 1000P /630
C1291 0.033 /630
R1291 3.9K (3W)
L1291
H.D.F.
R1293 1 (1W)
R1279 10K
C1277 0.22 /50
R1278 82K
+12V
C1276 10/50
V SAW
Q1276
4.2V
1.1V
0.5V
R1276 8.2K
Q1277
12.7V
3.6V
R1280 560
C1278 10/16
R1277 8.2K
R1283 1K
Q1279
Q1278
12.7V
9.9V
9.6V
HV.FB
R1282 10K
Q1280 2SA1390 Ⓒ / Ⓓ
9.0V
1.9V
R1285 10K
R1281 4.7K
R1284 10K
R1286 4.7K
D1276 1SS270
Q1276~Q1279 2SC3413BC /1740S-QRTA
-12V
(21)
(22)
(23)
(24)
(25)
(26)
(27)
(28)
(29)
(30)
(31)
(32)
(33)
(34)
DEFLECTION P.W.B. 1/2

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- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

# BASIC CIRCUIT DIAGRAM

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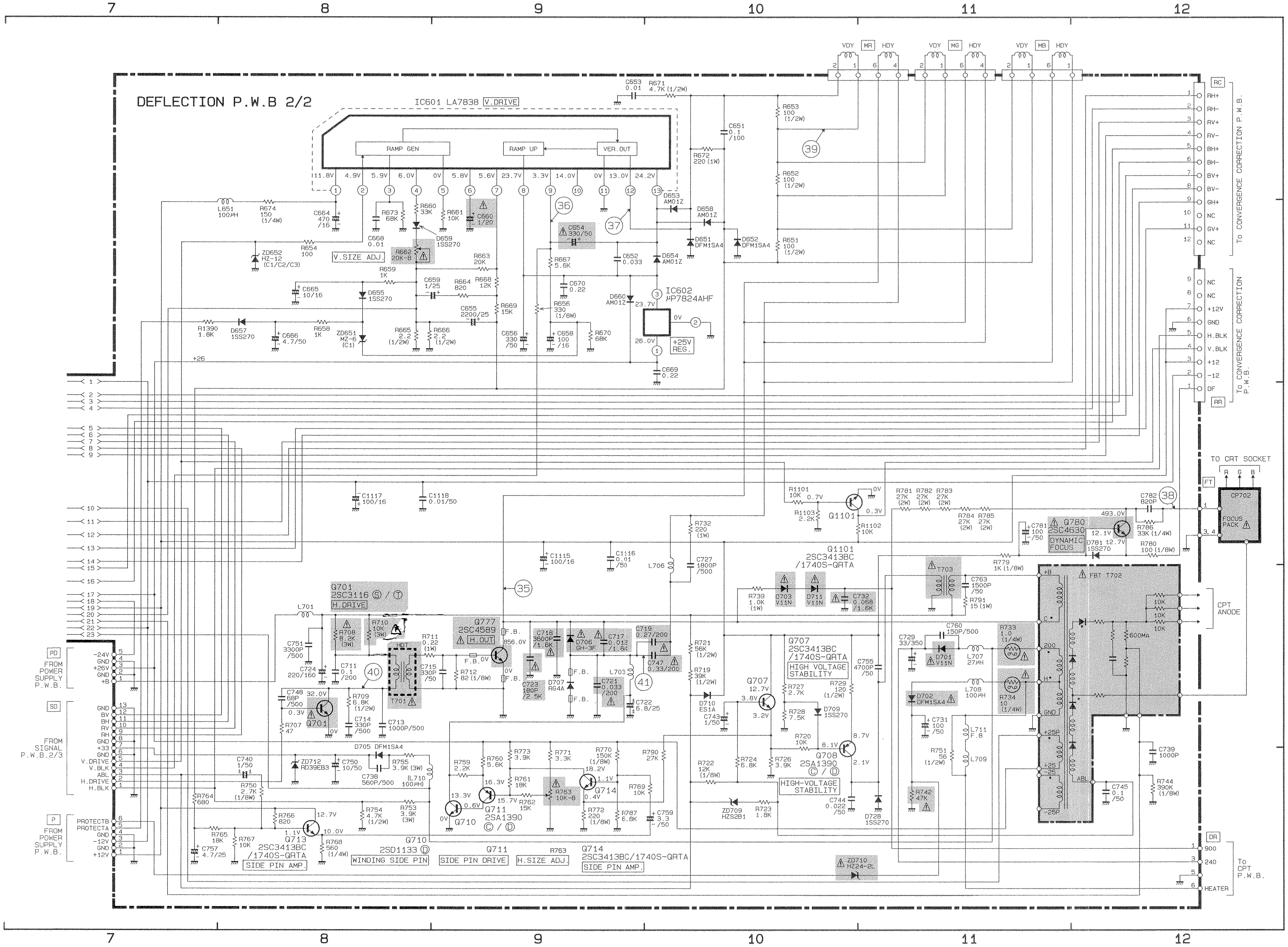
DEFLECTION P.W.B 2/2
IC601 LA7838 V.DRIVE
RAMP GEN
RAMP UP
VER.OUT
IC602 µP7824AHF
+25V REG.
V.SIZE ADJ
Q701 2SC3116 Ⓢ / Ⓣ H.DRIVE
Q777 2SC4589 H.OUT
Q707 2SC3413BC /1740S-QRTA HIGH VOLTAGE STABILITY
Q708 2SA1390 Ⓒ / Ⓓ HIGH-VOLTAGE STABILITY
Q1101 2SC3413BC /1740S-QRTA
Q780 2SC4630 DYNAMIC FOCUS
Q713 2SC3413BC /1740S-QRTA SIDE PIN AMP.
Q710 2SD1133 Ⓓ WINDING SIDE PIN
Q711 2SA1390 Ⓒ / Ⓓ SIDE PIN DRIVE
R763 H.SIZE ADJ.
Q714 2SC3413BC/1740S-QRTA SIDE PIN AMP.
FBT T702
T703
CP702 FOCUS PACK
TO CRT SOCKET
CPT ANODE
To CONVERGENCE CORRECTION P.W.B.
To CONVERGENCE CORRECTION P.W.B.
To CPT P.W.B.
FROM POWER SUPPLY P.W.B.
FROM SIGNAL P.W.B.2/3
FROM POWER SUPPLY P.W.B.
VDY MR HDY
VDY MG HDY
VDY MB HDY
RC
RR
FT
DR
PD
SD
P
7
8
9
10
11
12
A
B
C
D
E

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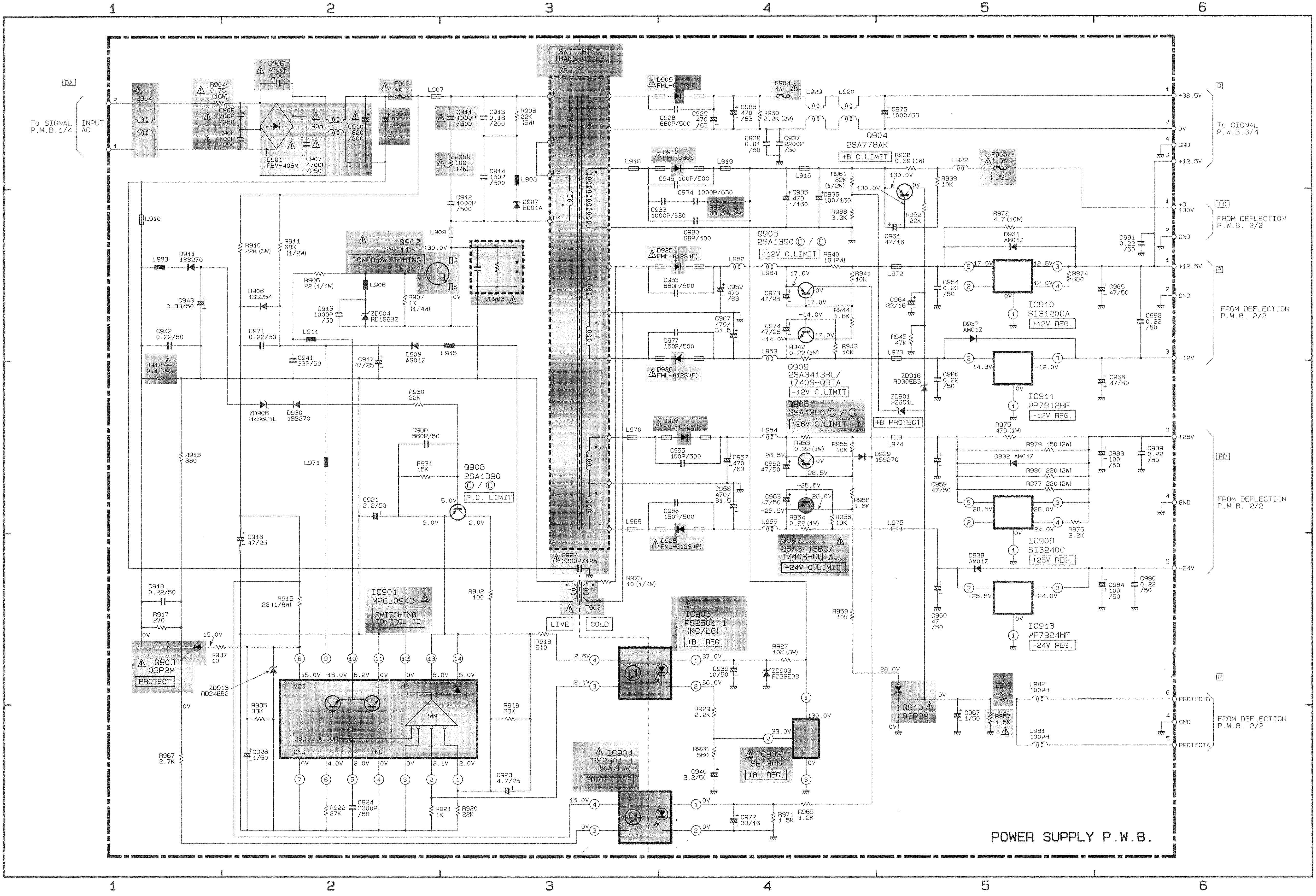
## BASIC CIRCUIT DIAGRAM


POWER SUPPLY P.W.B.
To SIGNAL P.W.B.1/4
INPUT AC
To SIGNAL P.W.B.3/4
FROM DEFLECTION P.W.B. 2/2
SWITCHING TRANSFORMER T902
Q902 2SK1181 POWER SWITCHING
CP903
Q903 03P2M PROTECT
IC901 MPC1094C SWITCHING CONTROL IC
OSCILLATION
PWM
Q908 2SA1390 Ⓒ / Ⓓ P.C. LIMIT
T903
LIVE
COLD
IC903 PS2501-1 (KC/LC) +B. REG.
IC904 PS2501-1 (KA/LA) PROTECTIVE
IC902 SE130N +B. REG.
Q904 2SA778AK +B C.LIMIT
Q905 2SA1390 Ⓒ / Ⓓ +12V C.LIMIT
Q909 2SA3413BL/1740S-QRTA -12V C.LIMIT
Q906 2SA1390 Ⓒ / Ⓓ +26V C.LIMIT
Q907 2SA3413BC/1740S-QRTA -24V C.LIMIT
+B PROTECT
IC910 SI3120CA +12V REG.
IC911 μP7912HF -12V REG.
IC909 SI3240C +26V REG.
IC913 μP7924HF -24V REG.
Q910 03P2M
F903 4A
F904 4A
F905 1.6A FUSE
D901 RBV-406M
+38.5V
0V
GND
+12.5V
+B 130V
+12.5V
-12V
+26V
-24V
PROTECTB
PROTECTA
1 2 3 4 5 6
A B C D E

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# BASIC CIRCUIT DIAGRAM

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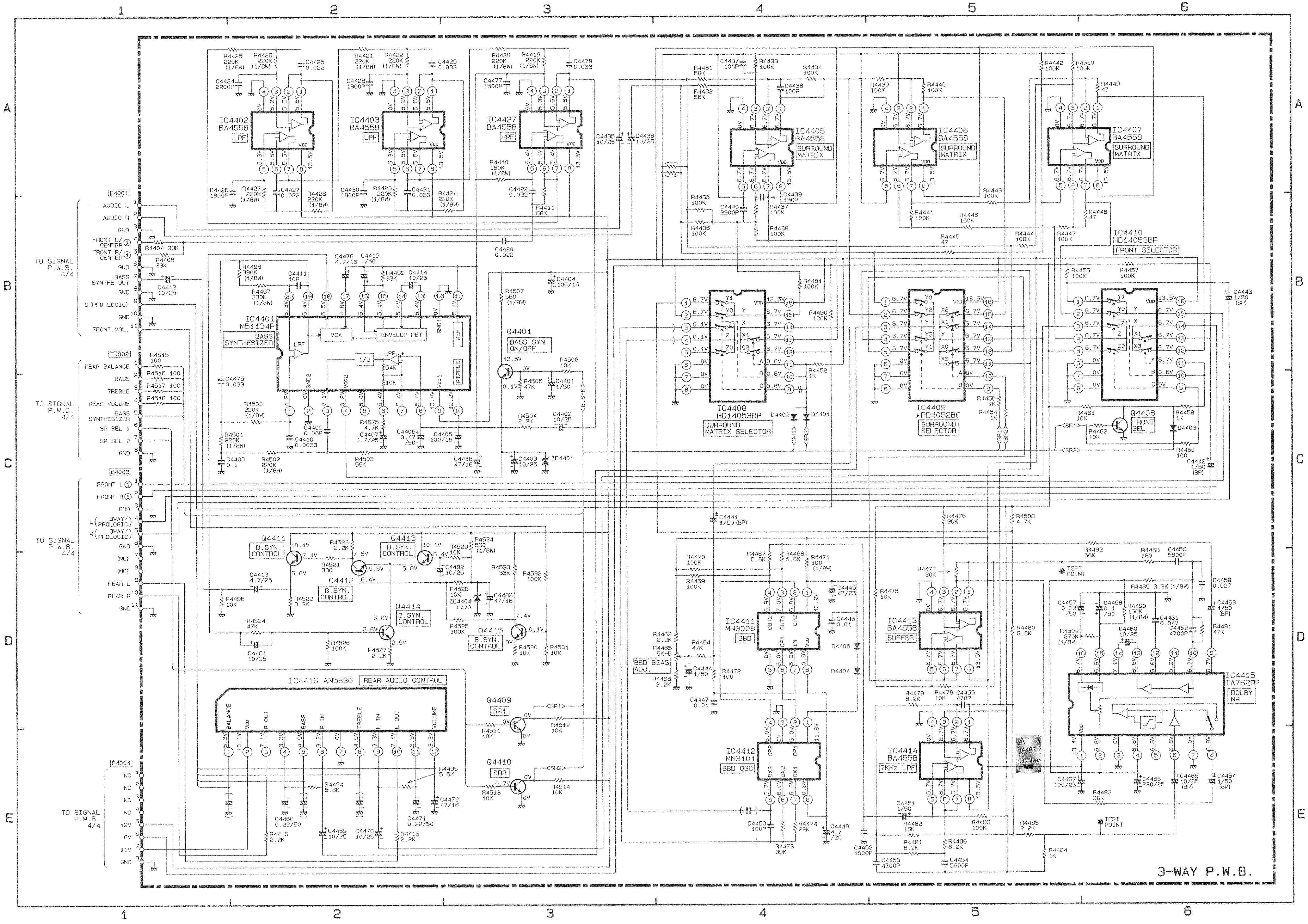

3-WAY P.W.B.
E4001
AUDIO L
AUDIO R
FRONT L/CENTER ①
FRONT R/CENTER ①
BASS SYNTHE OUT
S (PRO LOGIC)
FRONT. VOL.
E4002
REAR BALANCE
BASS
TREBLE
REAR VOLUME
BASS SYNTHESIZER
SR SEL 1
SR SEL 2
E4003
FRONT L①
FRONT R①
L (3WAY/PROLOGIC)
R (3WAY/PROLOGIC)
REAR L
REAR R
E4004
12V
6V
11V
GND
TO SIGNAL P.W.B. 4/4
IC4402 BA4558 LPF
IC4403 BA4558 LPF
IC4427 BA4558 HPF
IC4405 BA4558 SURROUND MATRIX
IC4406 BA4558 SURROUND MATRIX
IC4407 BA4558 SURROUND MATRIX
IC4401 M51134P BASS SYNTHESIZER
VCA
ENVELOP DET
REF
RIPPLE
Q4401 BASS SYN. ON/OFF
IC4408 HD14053BP SURROUND MATRIX SELECTOR
IC4409 μPD4052BC SURROUND SELECTOR
IC4410 HD14053BP FRONT SELECTOR
Q4408 FRONT SEL
Q4411 B.SYN. CONTROL
Q4412 B.SYN. CONTROL
Q4413 B.SYN. CONTROL
Q4414 B.SYN. CONTROL
Q4415 B.SYN. CONTROL
IC4416 AN5836 REAR AUDIO CONTROL
Q4409 SR1
Q4410 SR2
IC4411 MN3008 BBD
IC4412 MN3101 BBD OSC
BBD BIAS ADJ.
IC4413 BA4558 BUFFER
IC4414 BA4558 7KHz LPF
IC4415 TA7629P DOLBY NR
R4487 10 (1/4W)
TEST POINT

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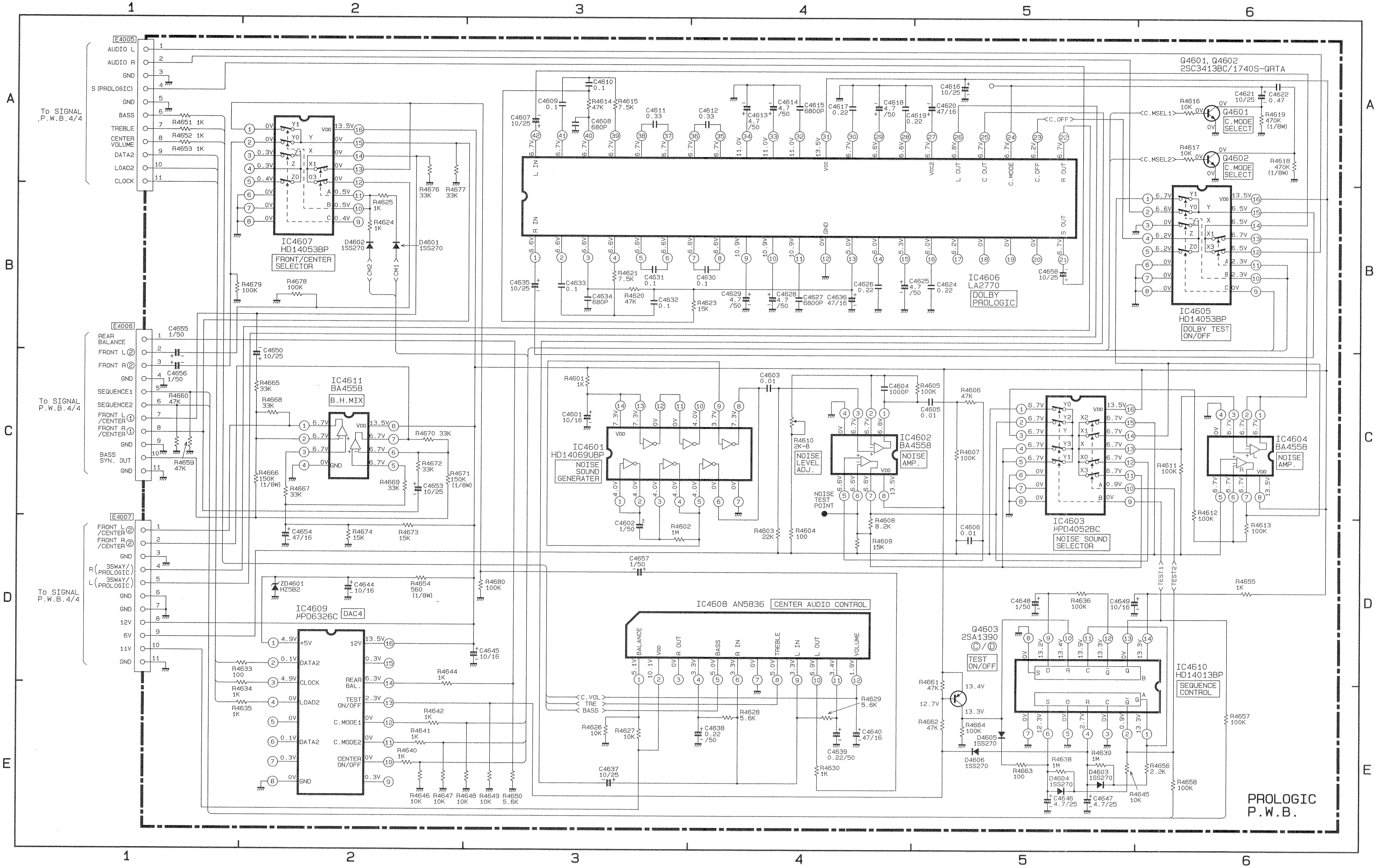
## BASIC CIRCUIT DIAGRAM



1 2 3 4 5 6
A B C D E
E4005
AUDIO L
AUDIO R
GND
S (PROLOGIC)
BASS
TREBLE
CENTER VOLUME
DATA2
LOAD2
CLOCK
To SIGNAL P.W.B.4/4
R4651 1K
R4652 1K
R4653 1K
IC4607 HD14053BP
FRONT/CENTER SELECTOR
R4676 33K
R4677 33K
R4625 1K
R4624 1K
D4602 1SS270
D4601 1SS270
CM2
CM1
R4679 100K
R4678 100K
C4607 10/25
C4609 0.1
C4610 0.1
R4614 47K
R4615 7.5K
C4608 680P
C4611 0.33
C4612 0.33
C4613 4.7/50
C4614 4.7/50
C4615 6800P
C4617 0.22
C4618 4.7/50
C4619 0.22
C4616 10/25
C4620 47/16
C.OFF
L IN
R IN
VCC
GND
VCC2
L OUT
C OUT
C.MODE
C.OFF
R OUT
S OUT
C4635 10/25
C4633 0.1
C4634 680P
R4621 7.5K
R4620 47K
C4631 0.1
C4632 0.1
C4630 0.1
R4623 15K
C4629 4.7/50
C4628 4.7/50
C4627 6800P
C4636 47/16
C4626 0.22
C4625 4.7/50
C4624 0.22
IC4606 LA2770
DOLBY PROLOGIC
C4658 10/25
Q4601, Q4602 2SC3413BC/1740S-QRTA
C.MSEL1
C.MSEL2
R4616 10K
R4617 10K
Q4601 C.MODE SELECT
Q4602 C.MODE SELECT
C4621 10/25
C4622 0.47
R4619 470K (1/8W)
R4618 470K (1/8W)
IC4605 HD14053BP
DOLBY TEST ON/OFF
E4006
REAR BALANCE
FRONT L②
FRONT R②
SEQUENCE1
SEQUENCE2
FRONT L /CENTER①
FRONT R /CENTER①
BASS SYN. OUT
C4655 1/50
C4656 1/50
R4660 47K
R4659 47K
C4650 10/25
R4665 33K
R4668 33K
IC4611 BA4558
B.H.MIX
R4670 33K
R4672 33K
R4671 150K (1/8W)
R4666 150K (1/8W)
R4667 33K
R4669 33K
C4653 10/25
C4654 47/16
R4674 15K
R4673 15K
R4601 1K
C4601 10/16
IC4601 HD14069UBP
NOISE SOUND GENERATER
C4602 1/50
R4602 1M
C4603 0.01
C4604 1000P
R4605 100K
C4605 0.01
R4606 47K
R4610 2K-B
NOISE LEVEL ADJ.
IC4602 BA4558
NOISE AMP.
R4607 100K
NOISE TEST POINT
R4603 22K
R4604 100
R4608 8.2K
R4609 15K
C4606 0.01
IC4603 μPD4052BC
NOISE SOUND SELECTOR
R4611 100K
R4612 100K
IC4604 BA4558
NOISE AMP.
R4613 100K
E4007
FRONT L /CENTER②
FRONT R /CENTER②
R (3SWAY/ PROLOGIC)
L (3SWAY/ PROLOGIC)
12V
6V
11V
ZD4601 HZ5B2
C4644 10/16
R4654 560 (1/8W)
R4680 100K
IC4609 μPD6326C DAC4
C4645 10/16
R4633 100
R4634 1K
R4635 1K
DATA2
CLOCK
LOAD2
REAR BAL.
TEST ON/OFF
C.MODE1
C.MODE2
CENTER ON/OFF
R4644 1K
R4642 1K
R4641 1K
R4640 1K
R4646 10K
R4647 10K
R4648 10K
R4649 10K
R4650 5.6K
C4657 1/50
IC4608 AN5836 CENTER AUDIO CONTROL
BALANCE
VDD
R OUT
BASS
R IN
TREBLE
L IN
L OUT
VOLUME
C.VOL
TRE
BASS
R4626 10K
R4627 10K
C4638 0.22/50
R4628 5.6K
R4629 5.6K
C4640 47/16
C4639 0.22/50
R4630 1K
C4637 10/25
TEST1
TEST2
R4655 1K
Q4603 2SA1390 Ⓒ/Ⓓ
TEST ON/OFF
R4661 47K
R4662 47K
R4664 100K
D4605 1SS270
D4606 1SS270
R4663 100
C4648 1/50
R4636 100K
C4649 10/16
IC4610 HD14013BP
SEQUENCE CONTROL
R4638 1M
R4639 1M
D4604 1SS270
D4603 1SS270
C4646 4.7/25
C4647 4.7/25
R4645 10K
R4656 2.2K
R4657 100K
R4658 100K
PROLOGIC P.W.B.

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# BASIC CIRCUIT DIAGRAM

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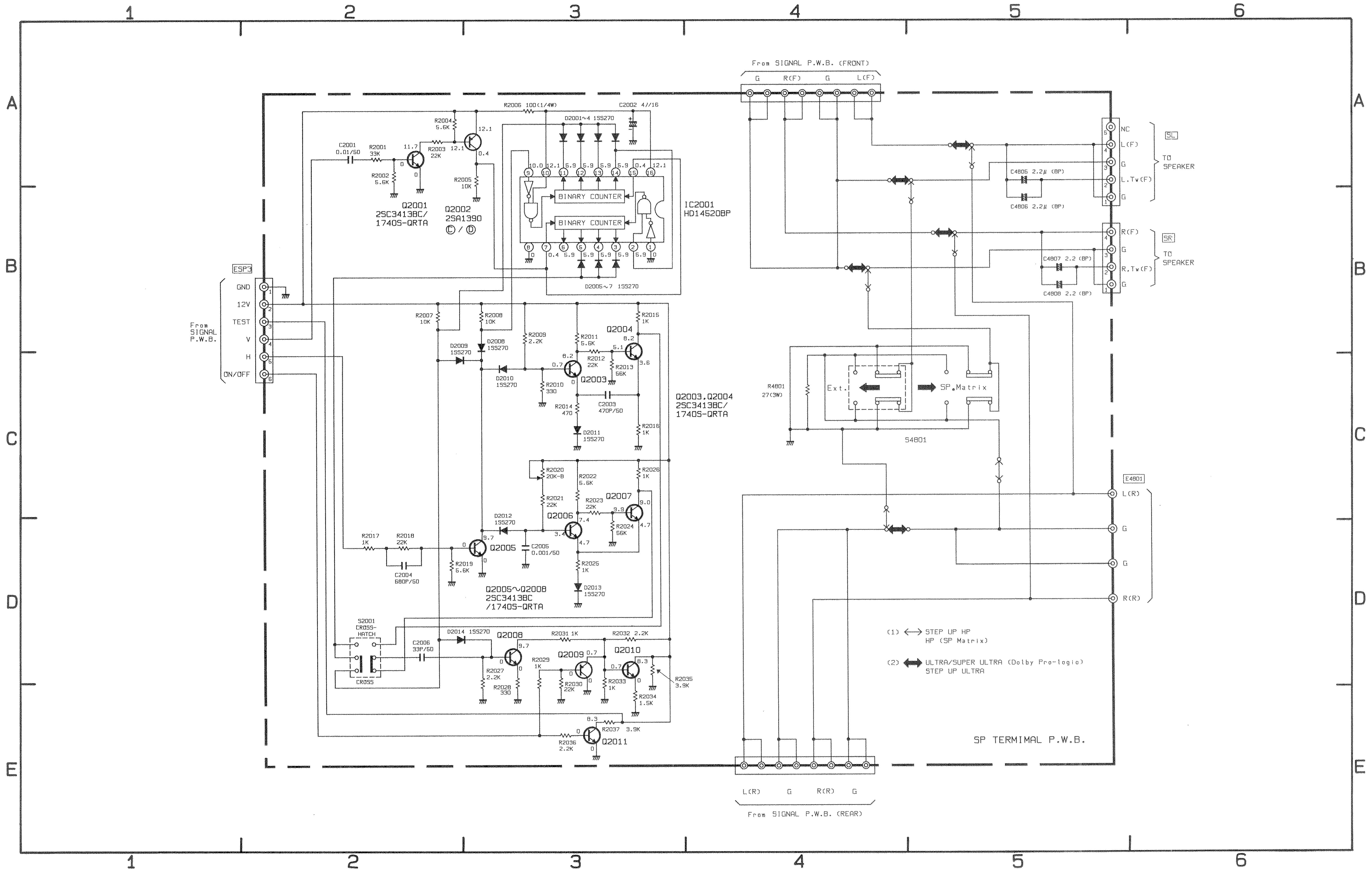
1
2
3
4
5
6
A
B
C
D
E
From SIGNAL P.W.B. (FRONT)
G
R(F)
G
L(F)
R2006 100(1/4W)
C2002 4/16
D2001~4 1SS270
R2004 5.6K
12.1
C2001 0.01/50
R2001 33K
11.7
R2003 22K
R2002 5.6K
R2005 10K
0.4
Q2001 2SC3413BC/ 1740S-QRTA
Q2002 2SA1390 Ⓒ/Ⓓ
BINARY COUNTER
BINARY COUNTER
IC2001 HD14520BP
D2005~7 1SS270
ESP3
GND
12V
TEST
V
H
ON/OFF
From SIGNAL P.W.B.
R2007 10K
R2008 10K
D2009 1SS270
D2008 1SS270
R2009 2.2K
R2011 5.6K
Q2004
R2015 1K
R2012 22K
R2013 56K
D2010 1SS270
R2010 330
Q2003
C2003 470P/50
R2014 470
D2011 1SS270
R2016 1K
Q2003,Q2004 2SC3413BC/ 1740S-QRTA
R2020 20K-B
R2022 5.6K
R2026 1K
R2021 22K
R2023 22K
Q2007
Q2006
R2024 56K
D2012 1SS270
R2017 1K
R2018 22K
Q2005
C2005 0.001/50
C2004 680P/50
R2019 5.6K
R2025 1K
D2013 1SS270
Q2005~Q2008 2SC3413BC /1740S-QRTA
S2001 CROSS-HATCH
CROSS
C2006 33P/50
D2014 1SS270
Q2008
R2031 1K
R2032 2.2K
Q2009
Q2010
R2027 2.2K
R2028 330
R2029 1K
R2030 22K
R2033 1K
R2034 1.5K
R2035 3.9K
R2037 3.9K
R2036 2.2K
Q2011
NC
L(F)
G
L.Tw(F)
G
C4805 2.2µ (BP)
C4806 2.2µ (BP)
SL
TO SPEAKER
R(F)
G
R.Tw(F)
G
C4807 2.2 (BP)
C4808 2.2 (BP)
SR
TO SPEAKER
R4801 27(3W)
Ext.
SP.Matrix
S4801
E4801
L(R)
G
G
R(R)
(1) ⟷ STEP UP HP
HP (SP Matrix)
(2) ⬌ ULTRA/SUPER ULTRA (Dolby Pro-logic)
STEP UP ULTRA
SP TERMIMAL P.W.B.
L(R)
G
R(R)
G
From SIGNAL P.W.B. (REAR)

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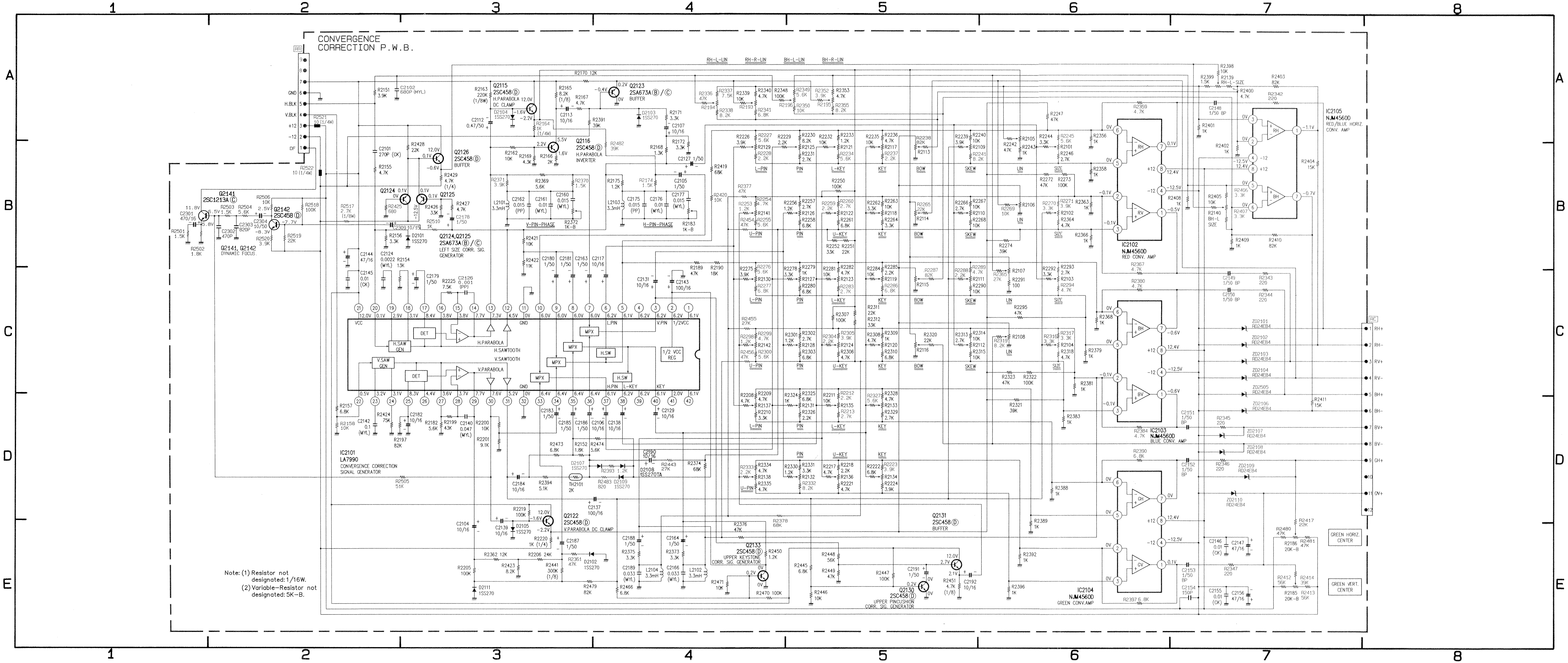
## BASIC CIRCUIT DIAGRAM


CONVERGENCE CORRECTION P.W.B.
IC2101 LA7990 CONVERGENCE CORRECTION SIGNAL GENERATOR
IC2102 NJM4560D RED CONV. AMP
IC2103 NJM4560D BLUE CONV. AMP
IC2104 NJM4560D GREEN CONV. AMP
IC2105 NJM4560D RED/BLUE HORIZ CONV. AMP
Q2115 2SC458(D) H.PARABOLA DC CLAMP
Q2123 2SA673A(B)/(C) BUFFER
Q2116 2SC458(D) H.PARABOLA INVERTER
Q2126 2SC458(D) BUFFER
Q2124, Q2125 2SA673A(B)/(C) LEFT SIZE CORR. SIG. GENERATOR
Q2141 2SC1213A(C)
Q2142 2SC458(D)
Q2141, Q2142 DYNAMIC FOCUS
Q2122 2SC458(D) V.PARABOLA DC CLAMP
Q2133 2SC458(D) UPPER KEYSTONE CORR. SIG. GENERATOR
Q2130 2SC458(D) UPPER PINCUSHION CORR. SIG. GENERATOR
Q2131 2SC458(D) BUFFER
V-PIN-PHASE
H-PIN-PHASE
RH-L-LIN
RH-R-LIN
BH-L-LIN
BH-R-LIN
L-PIN
PIN
L-KEY
KEY
BOW
SKEW
LIN
SIZE
U-PIN
U-KEY
H.SAW GEN
V.SAW GEN
DET
MPX
H.SW
H.SW
1/2 VCC REG
H.PARABOLA
V.PARABOLA
H.SAWTOOTH
V.SAWTOOTH
GREEN HORIZ. CENTER
GREEN VERT. CENTER
RH+
RH-
RV+
RV-
BH+
BH-
BV+
BV-
GH+
GV+
GND
H.BLK
V.BLK
+12
-12
DF
1 2 3 4 5 6 7 8
A B C D E

Note: (1) Resistor not designated: 1/16W.
(2) Variable-Resistor not designated: 5K-B.

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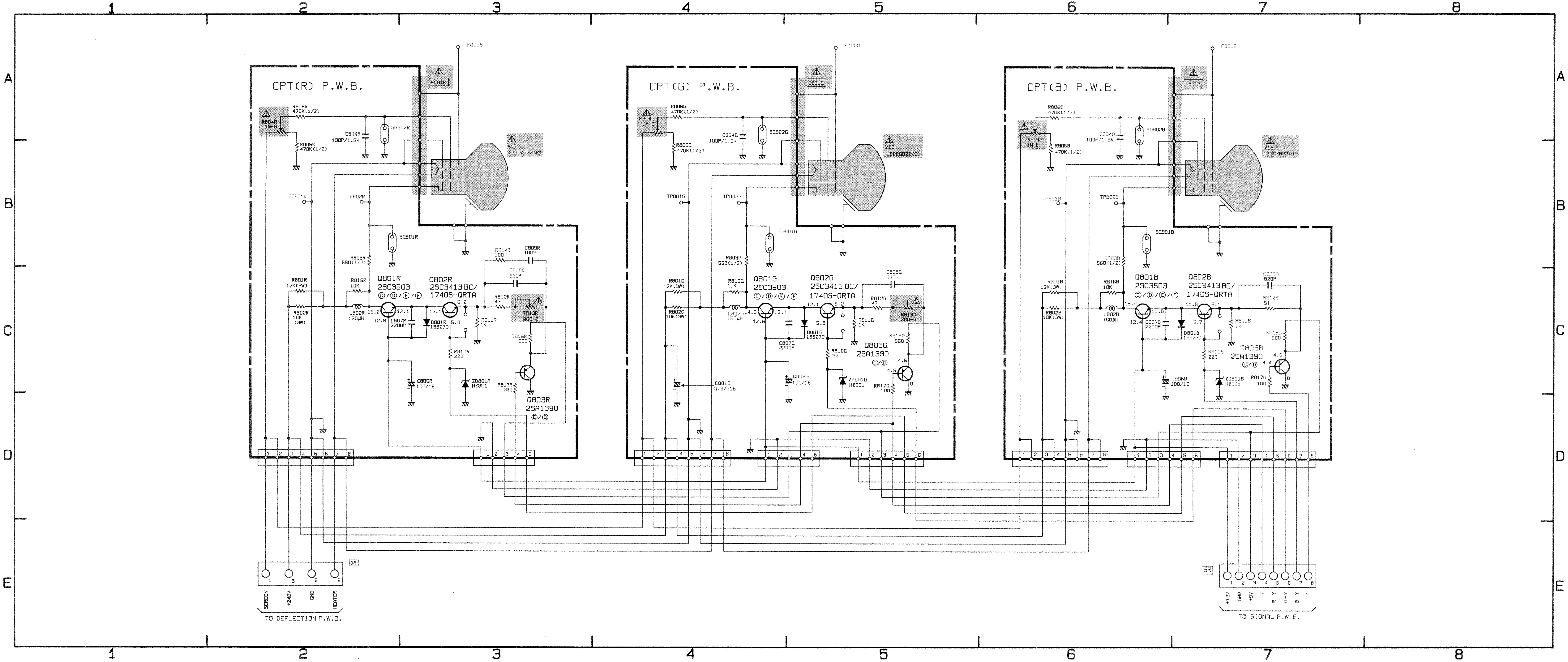
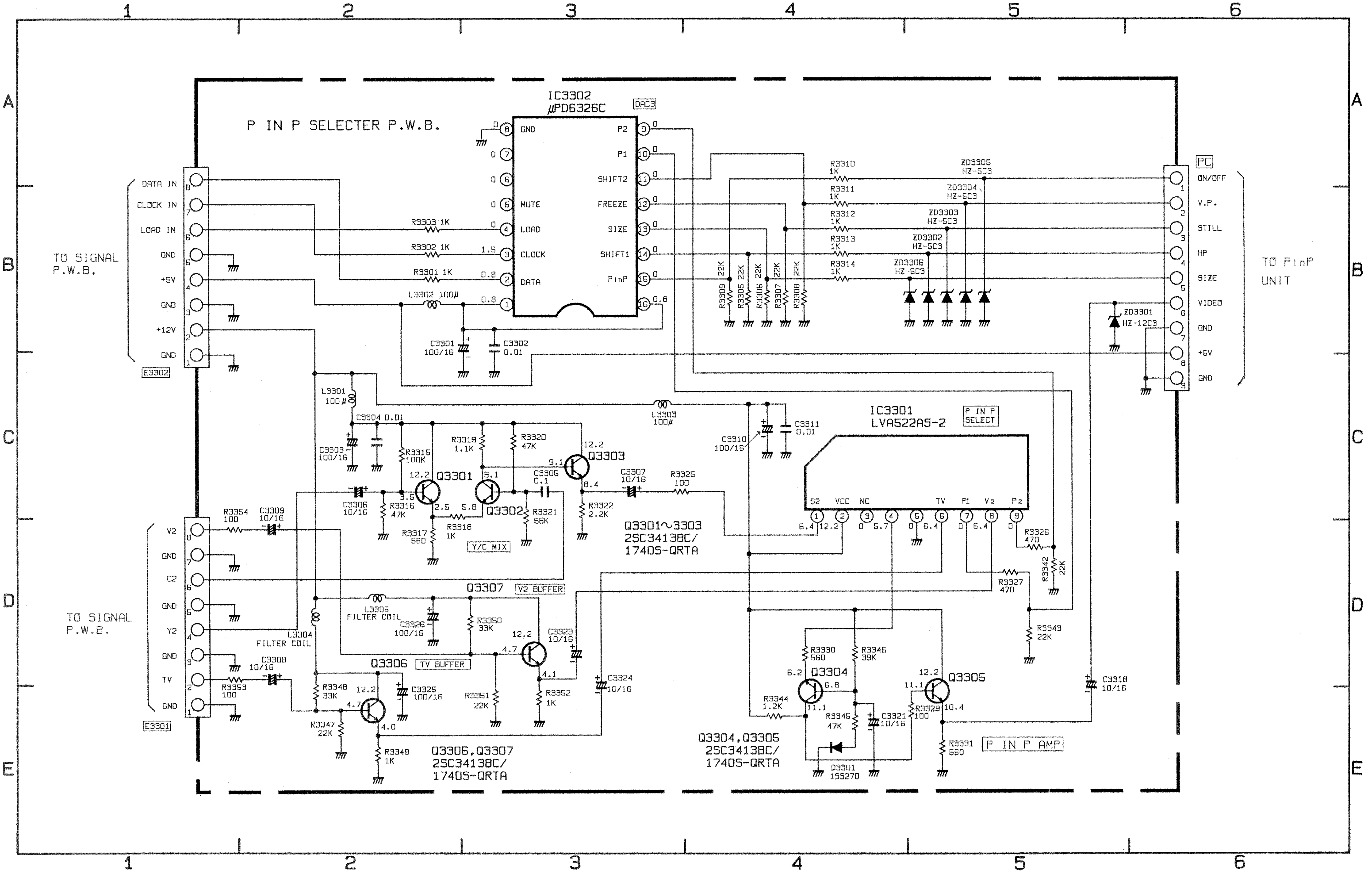

1
2
3
4
5
6
7
8
A
B
C
D
E
CPT(R) P.W.B.
FOCUS
E801R
R806R 470K(1/2)
R804R 1M-B
R805R 470K(1/2)
C804R 100P/1.6K
SG802R
V1R 180CZB22(R)
TP801R
TP802R
SG801R
R803R 560(1/2)
R801R 12K(3W)
R802R 10K (3W)
R816R 10K
L802R 150μH
Q801R 2SC3503 Ⓒ/Ⓓ/Ⓔ/Ⓕ
Q802R 2SC3413 BC/ 1740S-QRTA
16.2
12.1
12.6
12.1
5.2
5.8
C807R 2200P
D801R 1SS270
R811R 1K
R810R 220
R814R 100
C809R 100P
C808R 560P
R812R 47
R813R 200-B
R815R 560
C805R 100/16
ZD801R HZ9C1
R817R 330
Q803R 2SA1390 Ⓒ/Ⓓ
CPT(G) P.W.B.
FOCUS
E801G
R806G 470K(1/2)
R804G 1M-B
R805G 470K(1/2)
C804G 100P/1.6K
SG802G
V1G 180CGB22(G)
TP801G
TP802G
SG801G
R803G 560(1/2)
R801G 12K(3W)
R802G 10K(3W)
R816G 10K
L802G 150μH
Q801G 2SC3503 Ⓒ/Ⓓ/Ⓔ/Ⓕ
Q802G 2SC3413 BC/ 1740S-QRTA
14.5
12.1
12.6
12.1
5.2
5.8
C807G 2200P
D801G 1SS270
R811G 1K
R810G 220
C808G 820P
R812G 47
R813G 200-B
R815G 560
Q803G 2SA1390 Ⓒ/Ⓓ
4.5
4.5
0
C801G 3.3/315
C805G 100/16
ZD801G HZ9C1
R817G 100
CPT(B) P.W.B.
FOCUS
E801B
R806B 470K(1/2)
R804B 1M-B
R805B 470K(1/2)
C804B 100P/1.6K
SG802B
V1B 180CZB22(B)
TP801B
TP802B
SG801B
R803B 560(1/2)
R801B 12K(3W)
R802B 10K(3W)
R816B 10K
L802B 150μH
Q801B 2SC3503 Ⓒ/Ⓓ/Ⓔ/Ⓕ
Q802B 2SC3413 BC/ 1740S-QRTA
15.3
11.8
12.4
11.8
5.1
5.7
C807B 2200P
D801B 1SS270
R811B 1K
R810B 220
C808B 820P
R812B 91
R815B 560
Q803B 2SA1390 Ⓒ/Ⓓ
4.5
4.4
0
C805B 100/16
ZD801B HZ9C1
R817B 100
DR
1 3 5 6
SCREEN
+240V
GND
HEATER
TO DEFLECTION P.W.B.
SR
1 2 3 4 5 6 7 8
+12V
GND
+9V
Y
R-Y
G-Y
B-Y
Y
TO SIGNAL P.W.B.

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver though improper servicing.

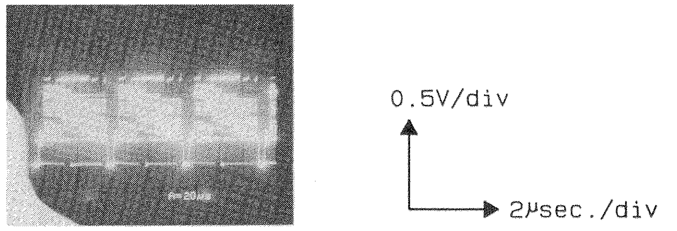
## BASIC CIRCUIT DIAGRAM

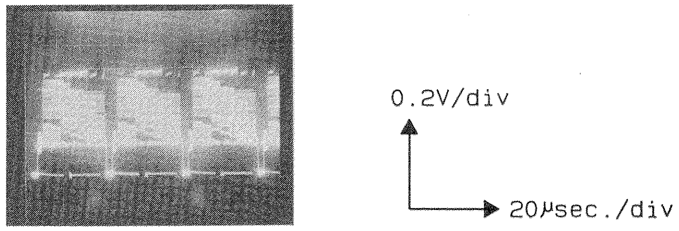

P IN P SELECTER P.W.B.
IC3302
μPD6326C
DAC3
GND
MUTE
LOAD
CLOCK
DATA
P2
P1
SHIFT2
FREEZE
SIZE
SHIFT1
PinP
TO SIGNAL P.W.B.
DATA IN
CLOCK IN
LOAD IN
GND
+5V
GND
+12V
GND
E3302
R3303 1K
R3302 1K
R3301 1K
L3302 100μ
C3301 100/16
C3302 0.01
R3310 1K
R3311 1K
R3312 1K
R3313 1K
R3314 1K
ZD3305 HZ-5C3
ZD3304 HZ-5C3
ZD3303 HZ-5C3
ZD3302 HZ-5C3
ZD3306 HZ-5C3
ZD3301 HZ-12C3
R3309 22K
R3305 22K
R3306 22K
R3307 22K
R3308 22K
PC
ON/OFF
V.P.
STILL
HP
SIZE
VIDEO
GND
+5V
GND
TO PinP UNIT
L3301 100μ
C3304 0.01
C3303 100/16
R3315 100K
R3319 1.1K
R3320 47K
Q3301
Q3302
Q3303
C3305 0.1
C3306 10/16
R3316 47K
R3317 560
R3318 1K
R3321 56K
R3322 2.2K
Y/C MIX
C3307 10/16
R3325 100
L3303 100μ
C3310 100/16
C3311 0.01
IC3301
LVA522AS-2
P IN P SELECT
S2 VCC NC TV P1 V2 P2
Q3301~3303
2SC3413BC/
1740S-QRTA
R3326 470
R3342 22K
R3327 470
R3343 22K
TO SIGNAL P.W.B.
V2
GND
C2
GND
Y2
GND
TV
GND
E3301
R3354 100
C3309 10/16
R3353 100
C3308 10/16
L3304 FILTER COIL
L3305 FILTER COIL
C3326 100/16
Q3307
V2 BUFFER
R3350 33K
C3323 10/16
C3324 10/16
Q3306
TV BUFFER
C3325 100/16
R3348 33K
R3347 22K
R3349 1K
R3351 22K
R3352 1K
Q3306,Q3307
2SC3413BC/
1740S-QRTA
R3330 560
R3346 39K
Q3304
Q3305
R3344 1.2K
R3345 47K
C3321 10/16
R3329 100
R3331 560
D3301 1SS270
C3318 10/16
P IN P AMP
Q3304,Q3305
2SC3413BC/
1740S-QRTA
1 2 3 4 5 6
A B C D E

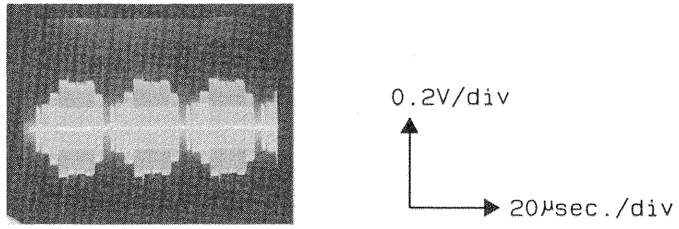
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

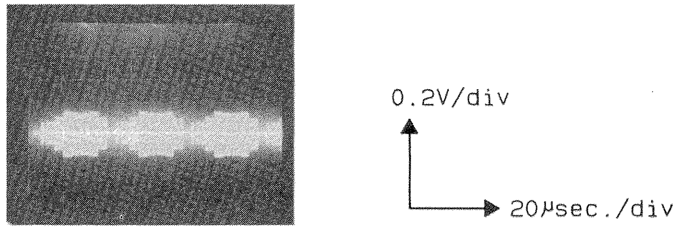
## WAVEFORMS AT EACH SECTION

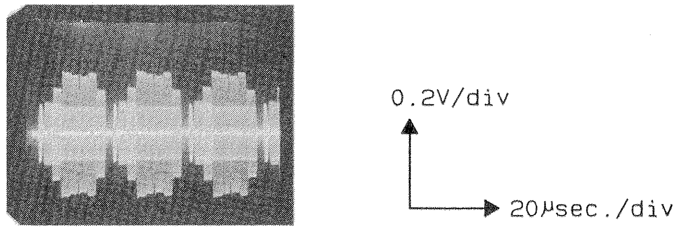
### SIGNAL P.W.B. (2/4)

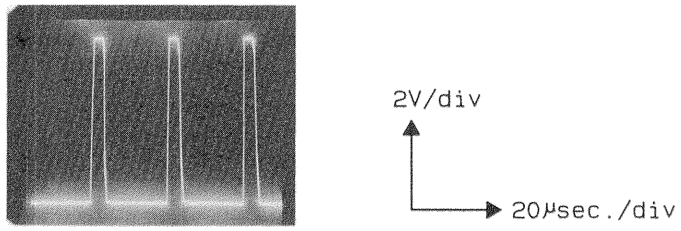

① M301 ④ pin

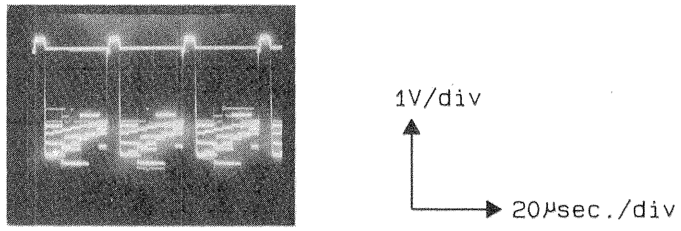

② M301 ⑥ pin

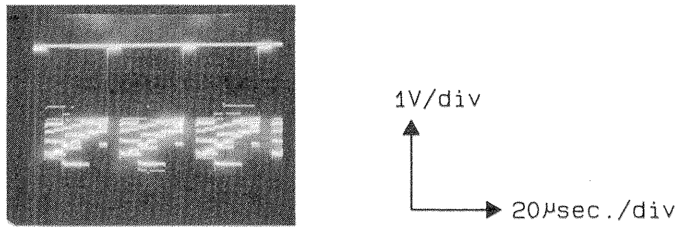

③ M301 ⑧ pin

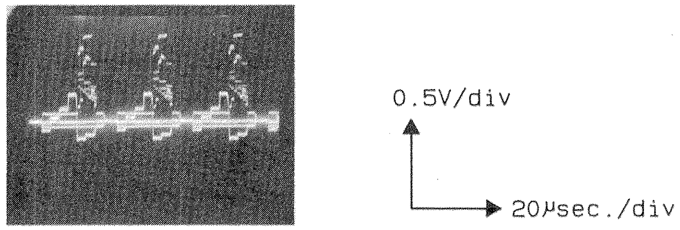

④ M301 ⑩ pin

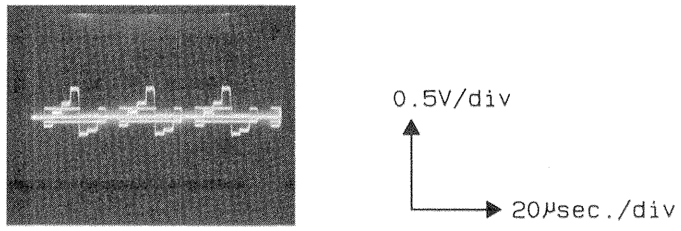

⑤ M301 ⑭ pin

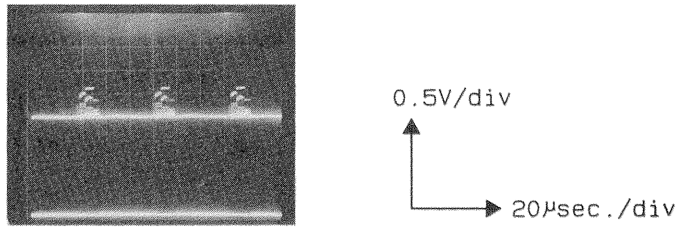

⑥ M301 ⑯ pin

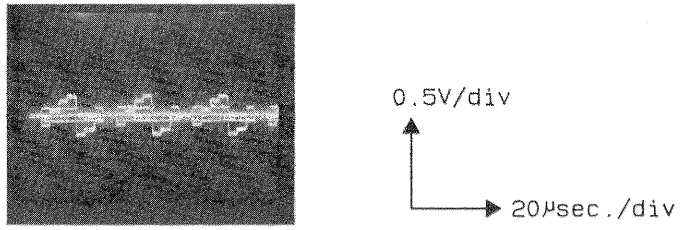

⑦ IC503 ⑩ pin

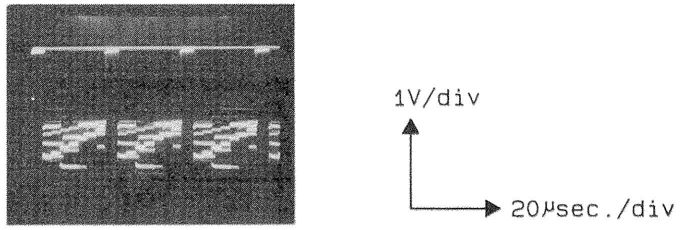

⑧ IC503 ⑪ pin

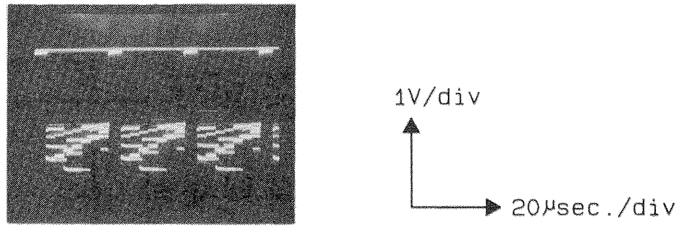

⑨ IC503 ⑰ pin

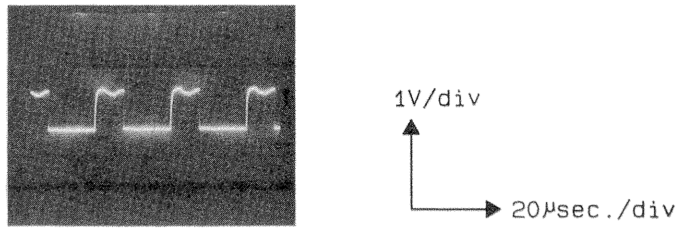

⑩ IC503 ⑱ pin

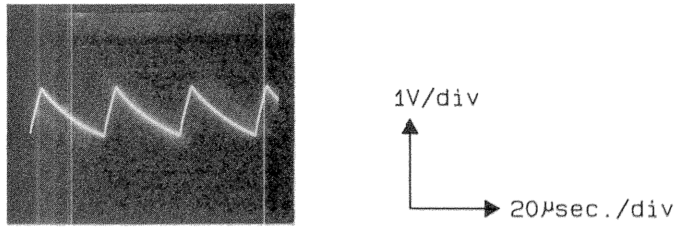

⑪ IC503 ⑲ pin

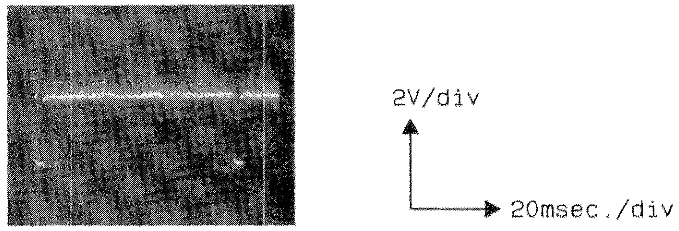

⑫ IC502 ⑲ pin

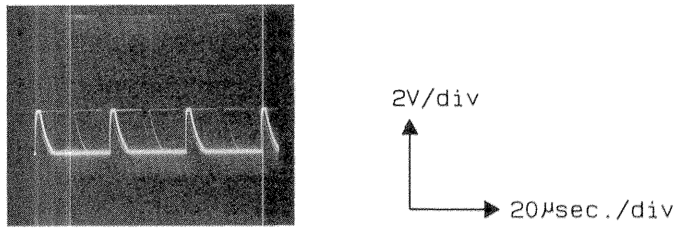

⑬ IC502 ㉔ pin

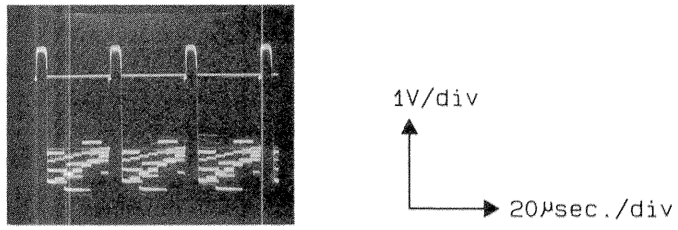

⑭ IC501 ⑨ pin

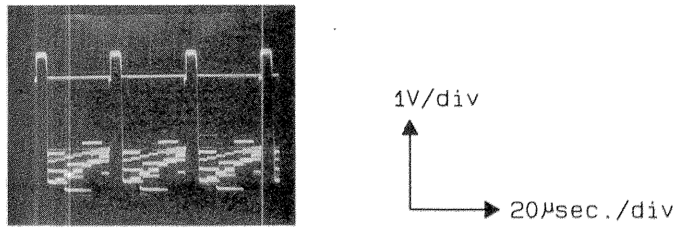

⑮ IC501 ㉓ pin


⑯ IC501 ㉗ pin


⑰ IC501 ㉚ pin

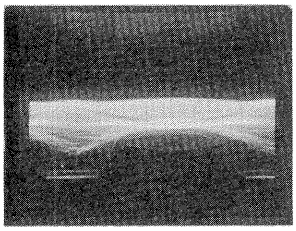

⑱ IC501 ㉝ pin


⑲ Q311 emitter


⑳ Q313 emitter

## DEFLECTION P.W.B. (1/2)

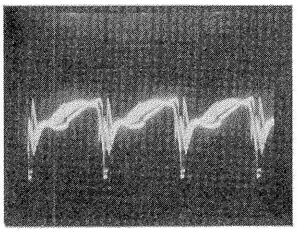
**㉑ CR connector ③ pin**



10V/div

2μsec./div

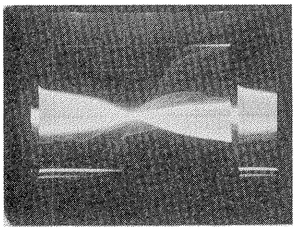
**㉒ CR connector ③ pin**



10V/div

20μsec./div

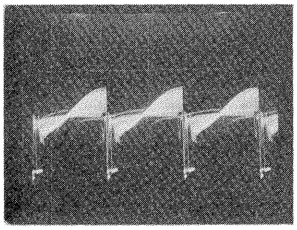
**㉓ CR connector ② pin**



10V/div

2msec./div

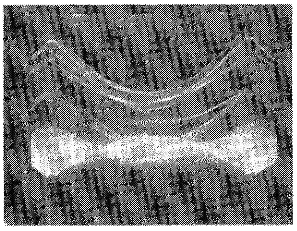
**㉔ CR connector ② pin**



10V/div

20μsec./div

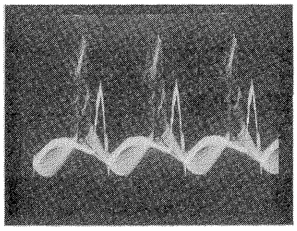
**㉕ CG connector ④ pin**



5V/div

2msec./div

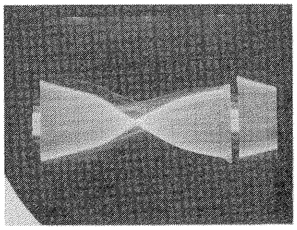
**㉖ CG connector ④ pin**



5V/div

20μsec./div

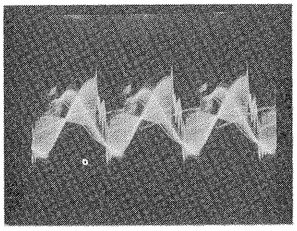
**㉗ CG connector ② pin**



5V/div

2msec./div

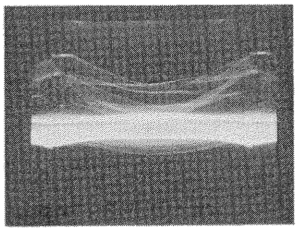
**㉘ CG connector ② pin**



5V/div

20μsec./div

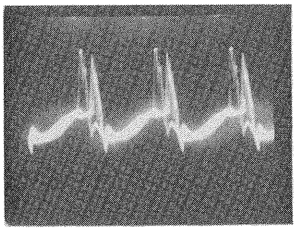
**㉙ CB connector ④ pin**



10V/div

2μsec./div

**㉚ CB connector ④ pin**

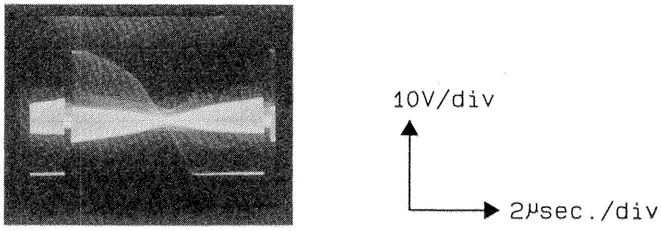


10V/div

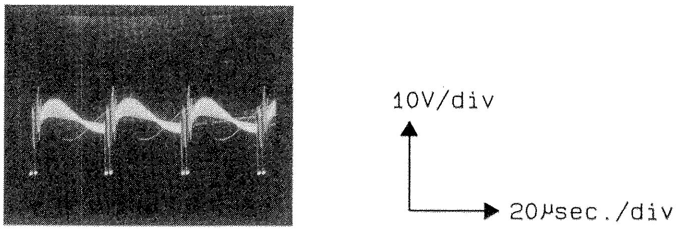
20μsec./div

## DEFLECTION P.W.B. (1/2)

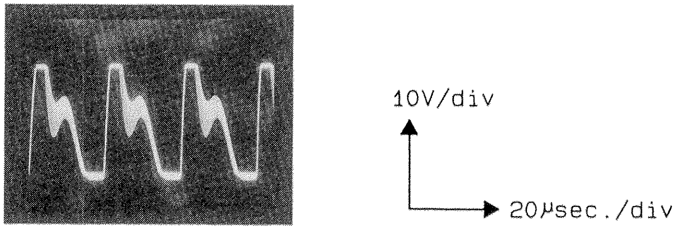
**㉛ CB connector ② pin**



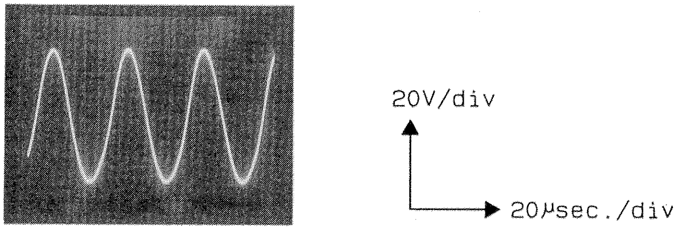
**㉜ CB connector ② pin**



**㉝ HG connector ⑤ pin**

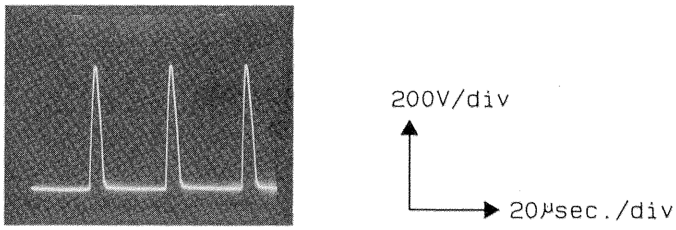


**㉞ HG connector ② pin**

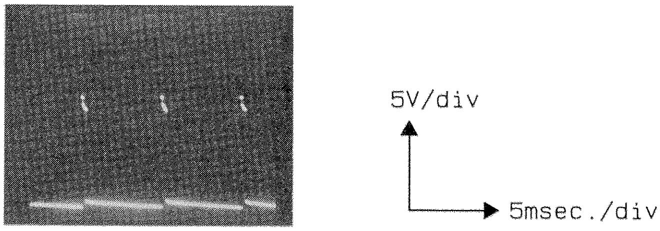


## DEFLECTION P.W.B. (2/2)

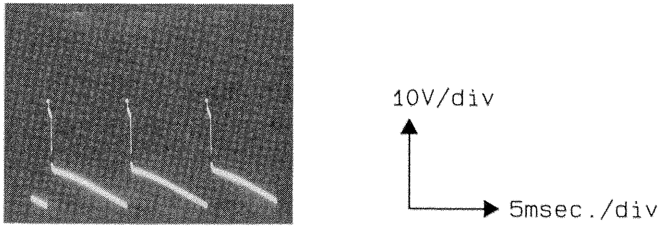
**㉟ Q777 corrector**



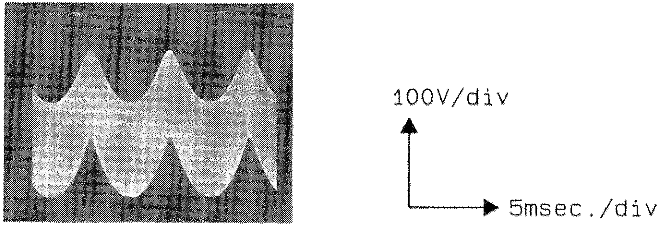
**㊱ IC601 ⑨ pin**



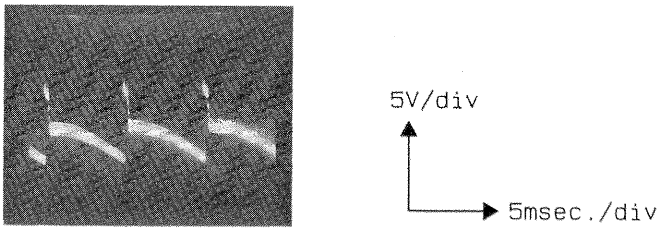
**㊲ IC601 ⑫ pin**



**㊳ FT connector ① pin**

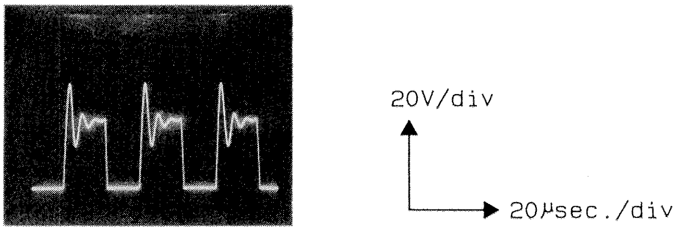


**㊴ MR connector ① pin**

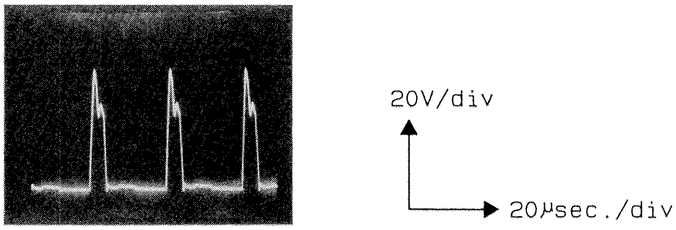


## DEFLECTION P.W.B. (2/2)

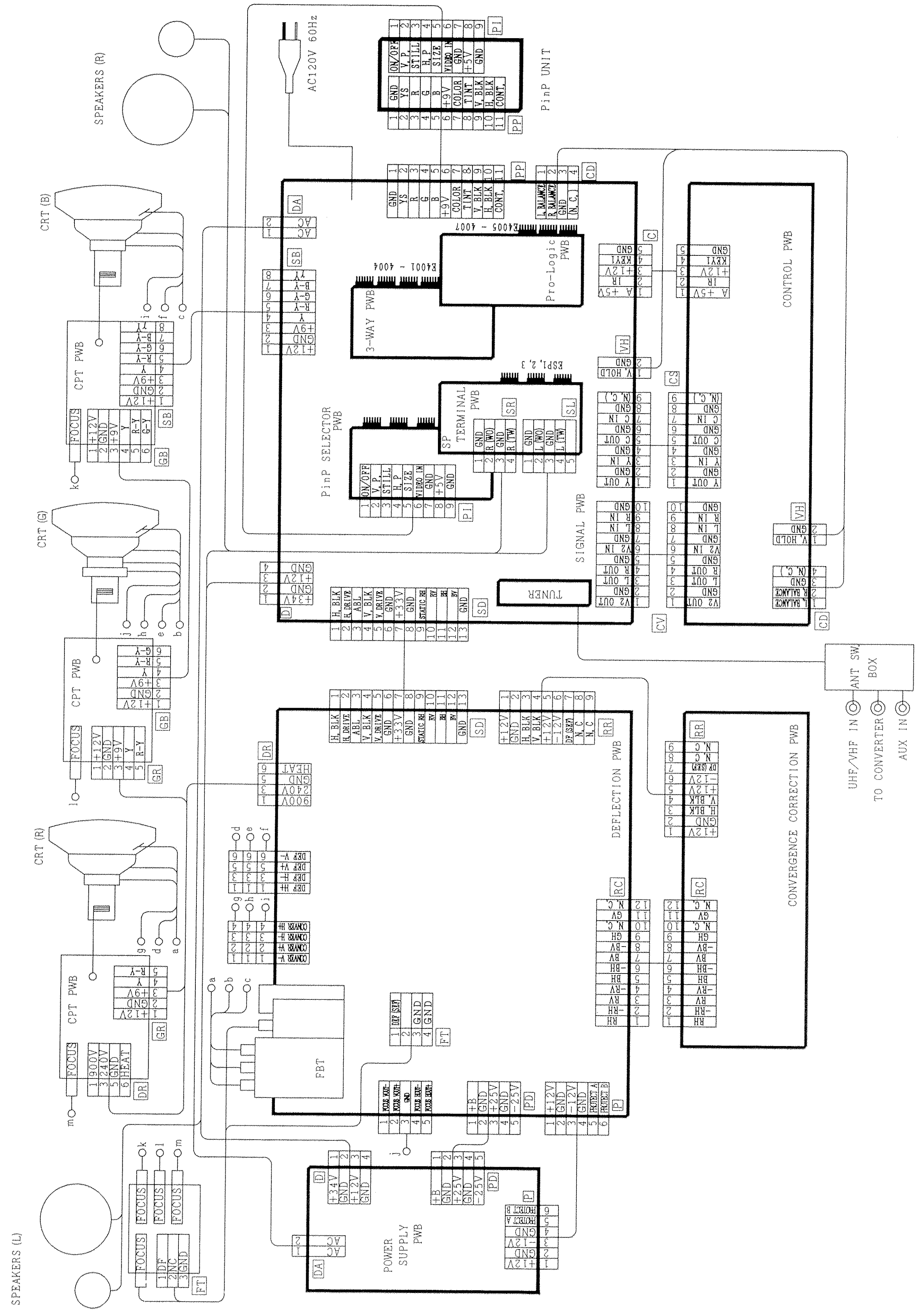
㊵ Q701 corrector



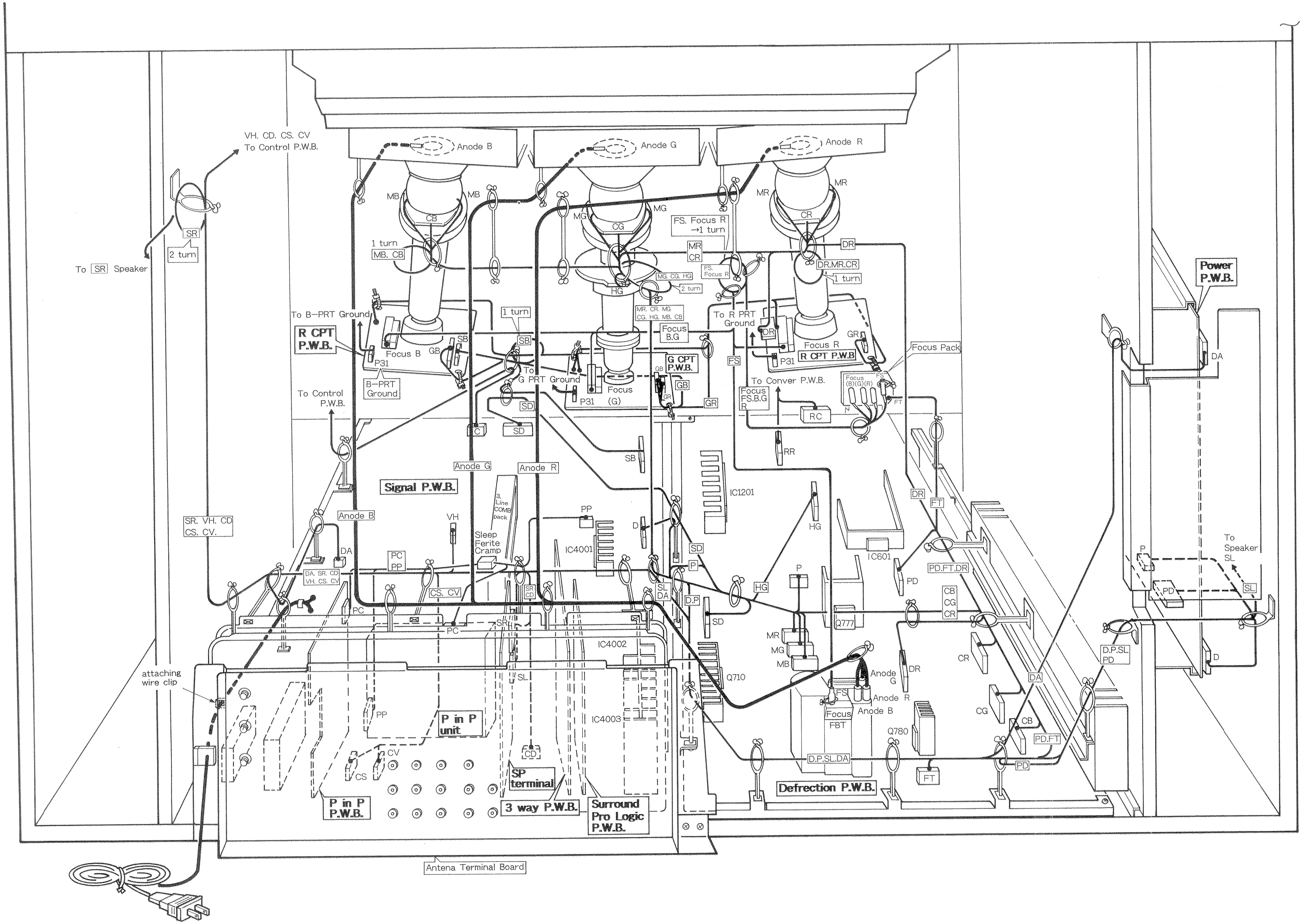
㊶ Q706 anode



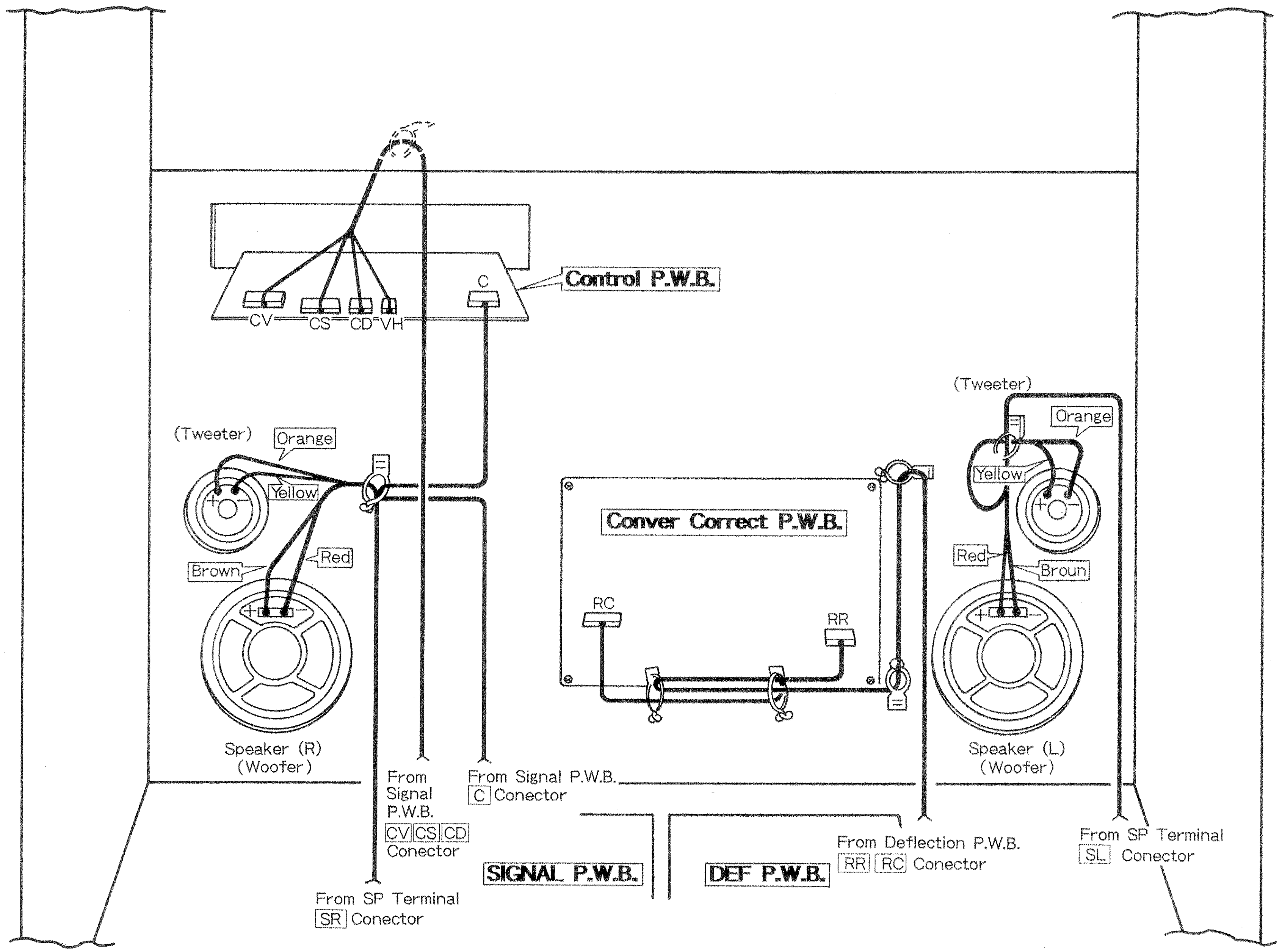
## WIRING DIAGRAM


SPEAKERS (R)
AC120V 60Hz
PinP UNIT
CRT (B)
CPT PWB
PinP SELECTOR PWB
3-WAY PWB
Pro-Logic PWB
SP TERMINAL PWB
SIGNAL PWB
CONTROL PWB
TUNER
CRT (G)
ANT SW. BOX
UHF/VHF IN
TO CONVERTER
AUX IN
DEFLECTION PWB
CONVERGENCE CORRECTION PWB
CRT (R)
FBT
POWER SUPPLY PWB
SPEAKERS (L)

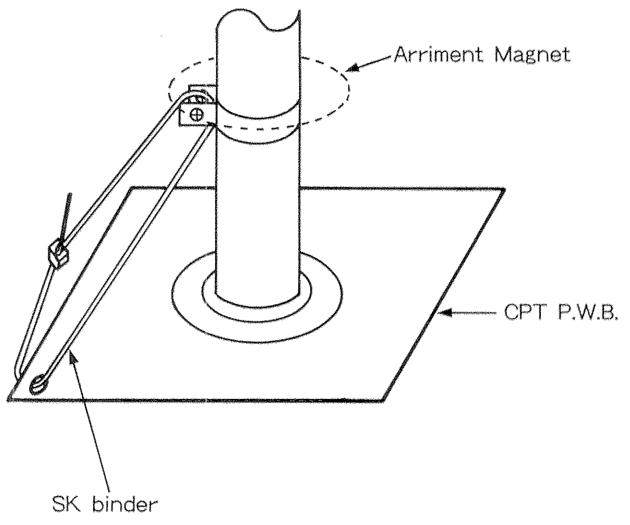
## WIRING DIAGRAM


VH. CD. CS. CV
To Control P.W.B.
SR
2 turn
To SR Speaker
Anode B
Anode G
Anode R
MB
MB
CB
1 turn
MB. CB
MG
MG
CG
HG
MG. CG. HG
2 turn
MR. CR. MG
CG. HG. MB. CB
FS. Focus R
→1 turn
MR
CR
FS.
Focus R
MR
MR
CR
DR
DR.MR.CR
1 turn
To B-PRT Ground
R CPT
P.W.B.
1 turn
SB
SB
Focus B
GB
P31
B-PRT
Ground
To
G PRT Ground
Focus
B.G
Focus
(G)
P31
G CPT
P.W.B.
GB
GR
GB
GR
To R PRT
Ground
DR
FS
P31
Focus R
R CPT P.W.B.
GR
Focus Pack
Focus
(B)(G)(R)
FS
FT
To Conver P.W.B.
Focus
FS.B.G
R
RC
RR
To Control
P.W.B.
SD
SD
C
SB
Anode G
Anode R
Signal P.W.B.
3.
Line
COMB
pack
Sleep
Ferite
Cramp
VH
PP
IC4001
D
SD
P
IC1201
HG
IC601
DR
FT
PD.FT.DR
PD
Power
P.W.B.
DA
To
Speaker
SL
P
PD
SL
SR. VH. CD
CS. CV.
Anode B
DA
PC
PP
DA. SR. CD
VH. CS. CV
CS. CV
SR
CD
SL
DA
D.P
SD
HG
P
Q777
CB
CG
CR
PC
PC
SR
SL
IC4002
Q710
MR
MG
MB
Anode
G
Anode R
Anode B
FS
Focus
FBT
DR
CR
D.P.SL
PD
D
DA
attaching
wire clip
PP
P in P
unit
IC4003
CD
CV
CS
SP
terminal
P in P
P.W.B.
3 way P.W.B.
Surround
Pro Logic
P.W.B.
Q780
D.P.SL.DA
Defrection P.W.B.
CG
CB
PD.FT
PD
FT
Antena Terminal Board

# WIRING DIAGRAM

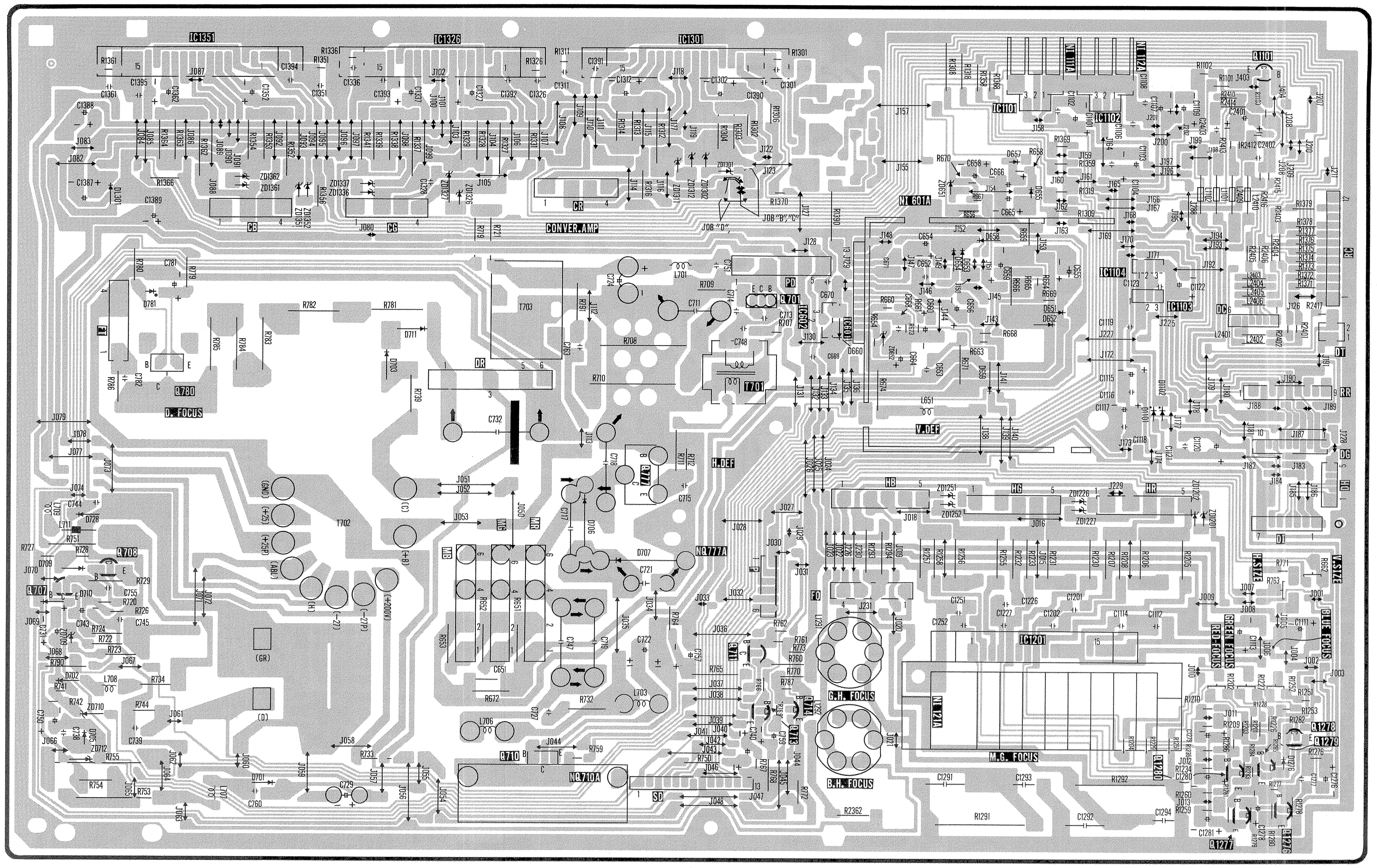

Control P.W.B.
C
CV
CS
CD
VH
(Tweeter)
Orange
Yellow
Brown
Red
Speaker (R)
(Woofer)
Conver Correct P.W.B.
RC
RR
(Tweeter)
Orange
Yellow
Red
Broun
Speaker (L)
(Woofer)
From Signal P.W.B.
CV CS CD
Conector
From Signal P.W.B.
C Conector
From SP Terminal
SR Conector
SIGNAL P.W.B.
DEF P.W.B.
From Deflection P.W.B.
RR RC Conector
From SP Terminal
SL Conector

G–PRT only
clamping CPT P.W.B. with SK binder

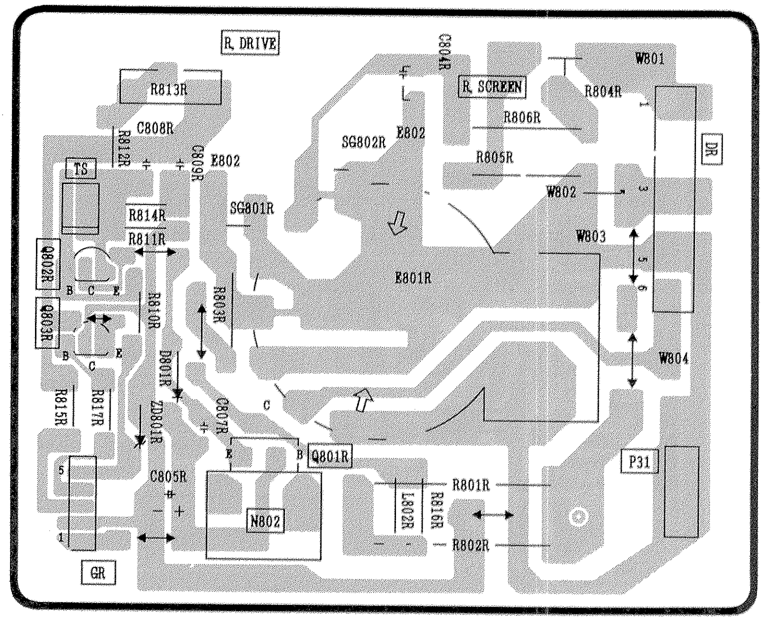

Arriment Magnet
CPT P.W.B.
SK binder

# PRINTED WIRING BOARD

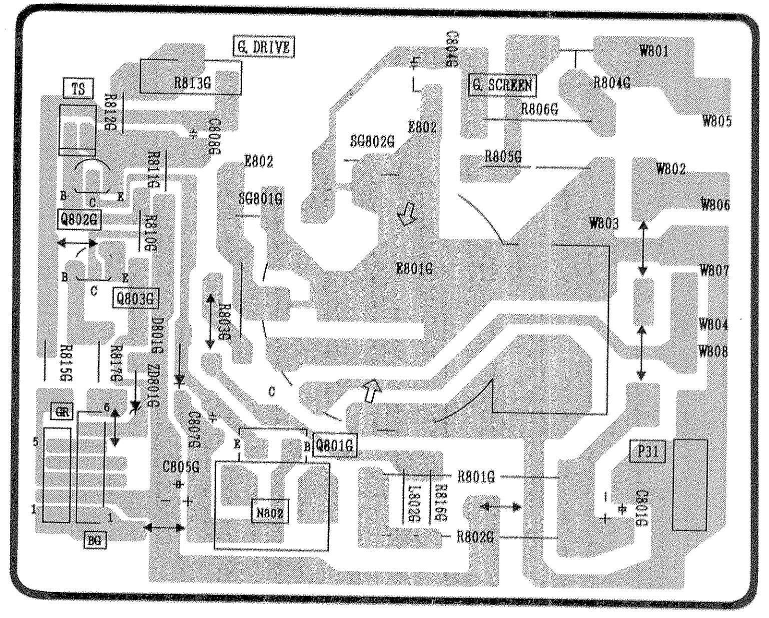
## DEFLECTION P.W.B.


IC1351
IC1326
IC1301
IC1101
IC1102
IC1104
IC1103
IC1201
CONVER.AMP
D. FOCUS
H.DEF
V.DEF
G.H. FOCUS
B.H. FOCUS
M.G. FOCUS
T702
T703
T701

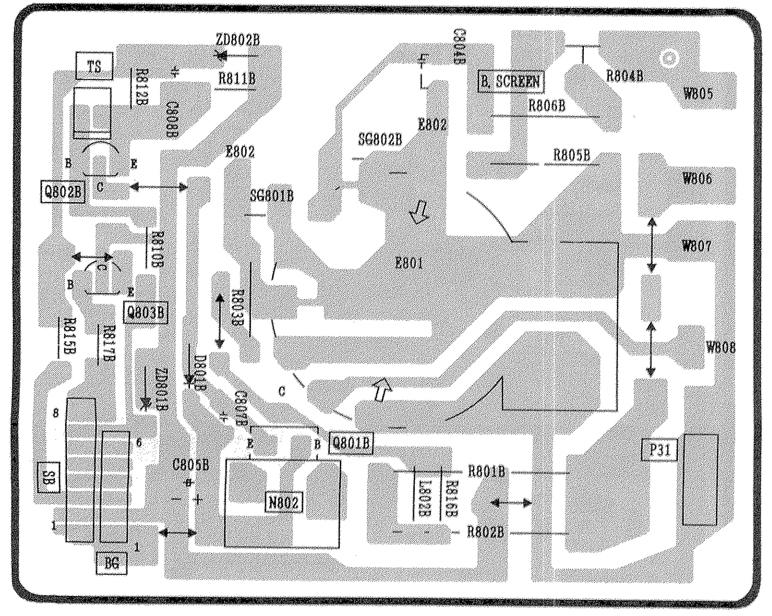
## C.P.T. (R) P.W.B.


R. DRIVE
R. SCREEN
N802
P31

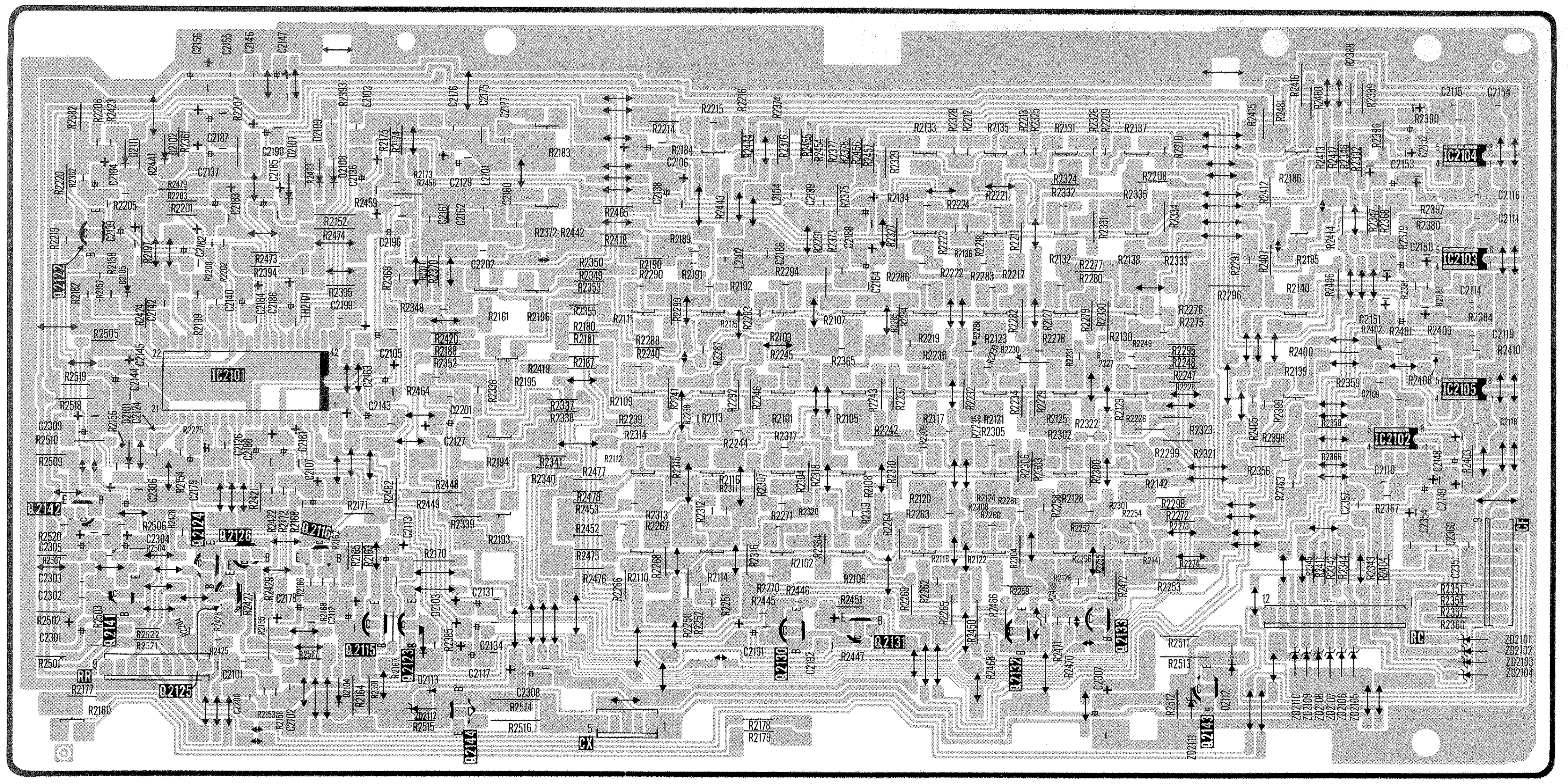
## C.P.T. (G) P.W.B.


G. DRIVE
G. SCREEN
N802
P31

## C.P.T. (B) P.W.B.

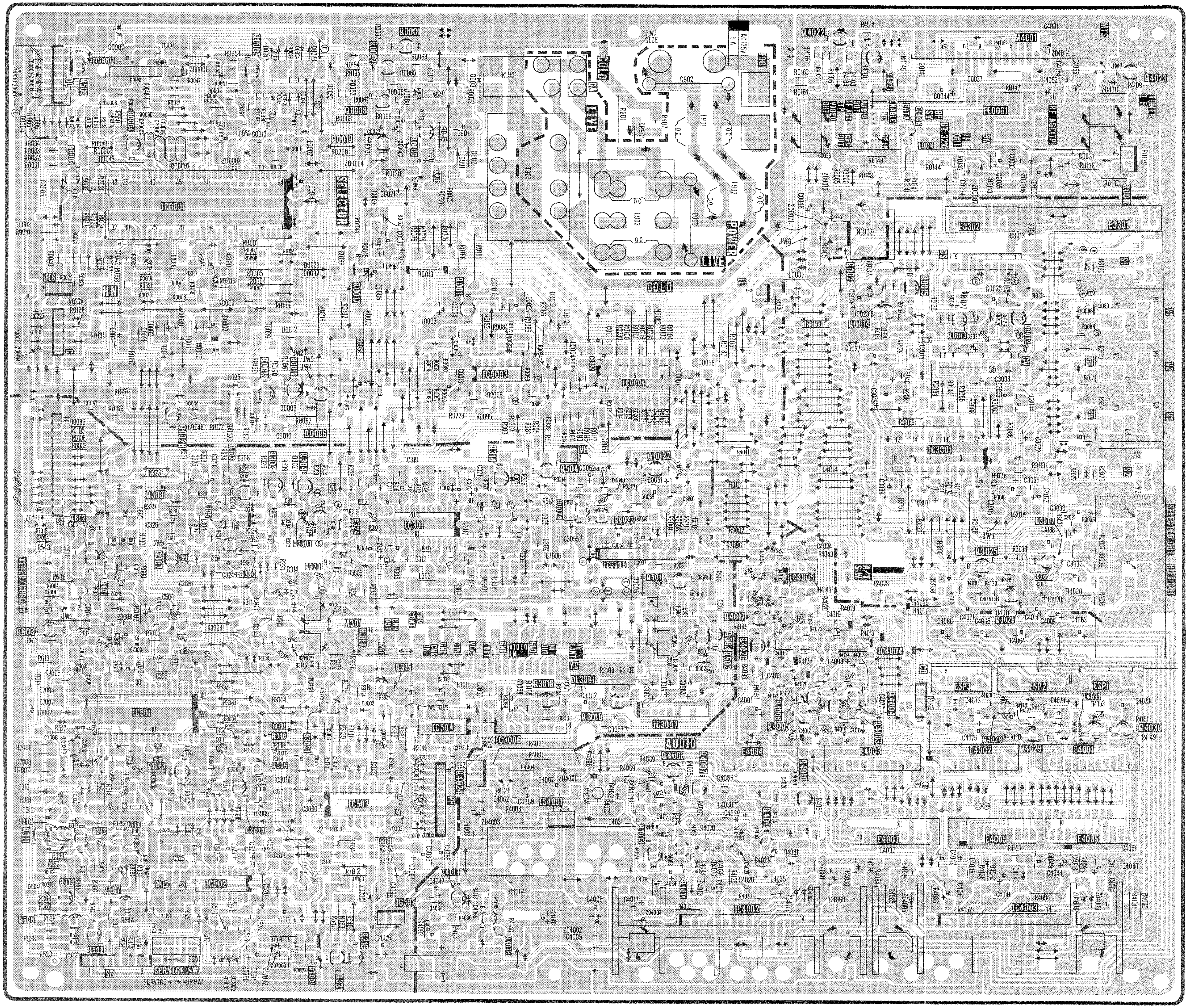

B. SCREEN
N802
P31

## CONVERGENCE CORRECTION P.W.B.


IC2101
IC2102
IC2103
IC2104
IC2105

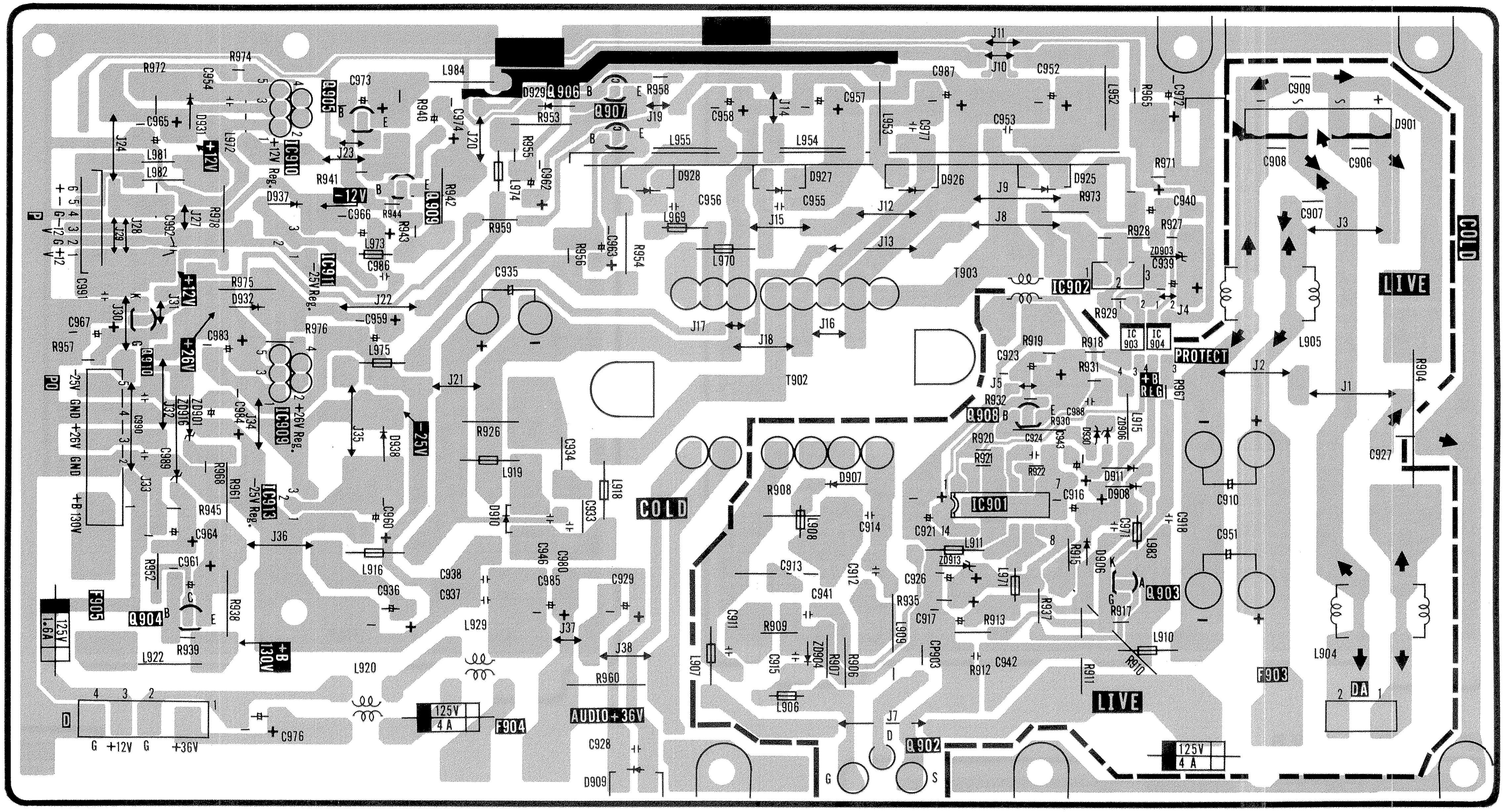
# PRINTED WIRING BOARD

## SIGNAL P.W.B.

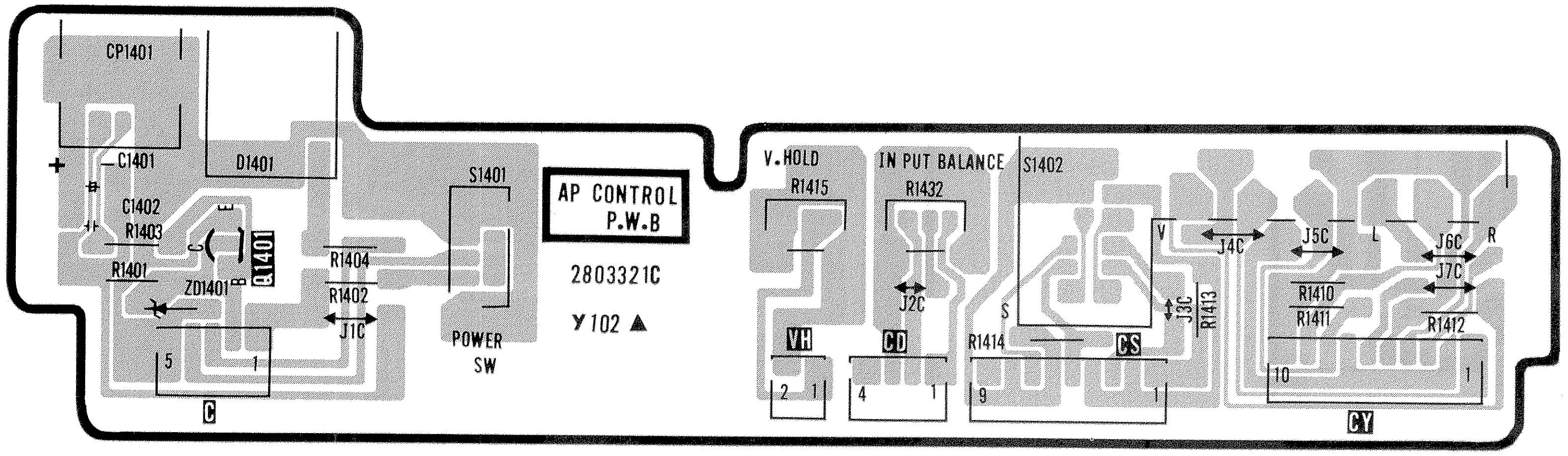

GND SIDE
AC125V 5A
F901
RL901
T901
L901
L902
L903
C902
C903
COLD
LIVE
POWER
SELECTOR
IC0001
IC0003
IC0004
JIG
HN
Q0001
Q0006
Q0008
Q0010
Q0014
Q0016
M4001
MTS
TUNER
FE0001
RF AGC TP
E3301
E3302
IC3001
IC301
IC501
IC502
IC503
IC504
IC505
IC3005
IC3006
IC3007
IC4001
IC4002
IC4003
IC4004
IC4005
M301
DL3001
AUDIO
ESP1
ESP2
ESP3
E4001
E4002
E4003
E4004
E4005
E4006
E4007
VIDEO/CHROMA
SELECTED OUT
HIFI OUT
V1
V2
V3
S1
S2
SERVICE SW
SERVICE ←→ NORMAL
S301
SB

# PRINTED WIRING BOARD

## POWER SUPPLY P.W.B.

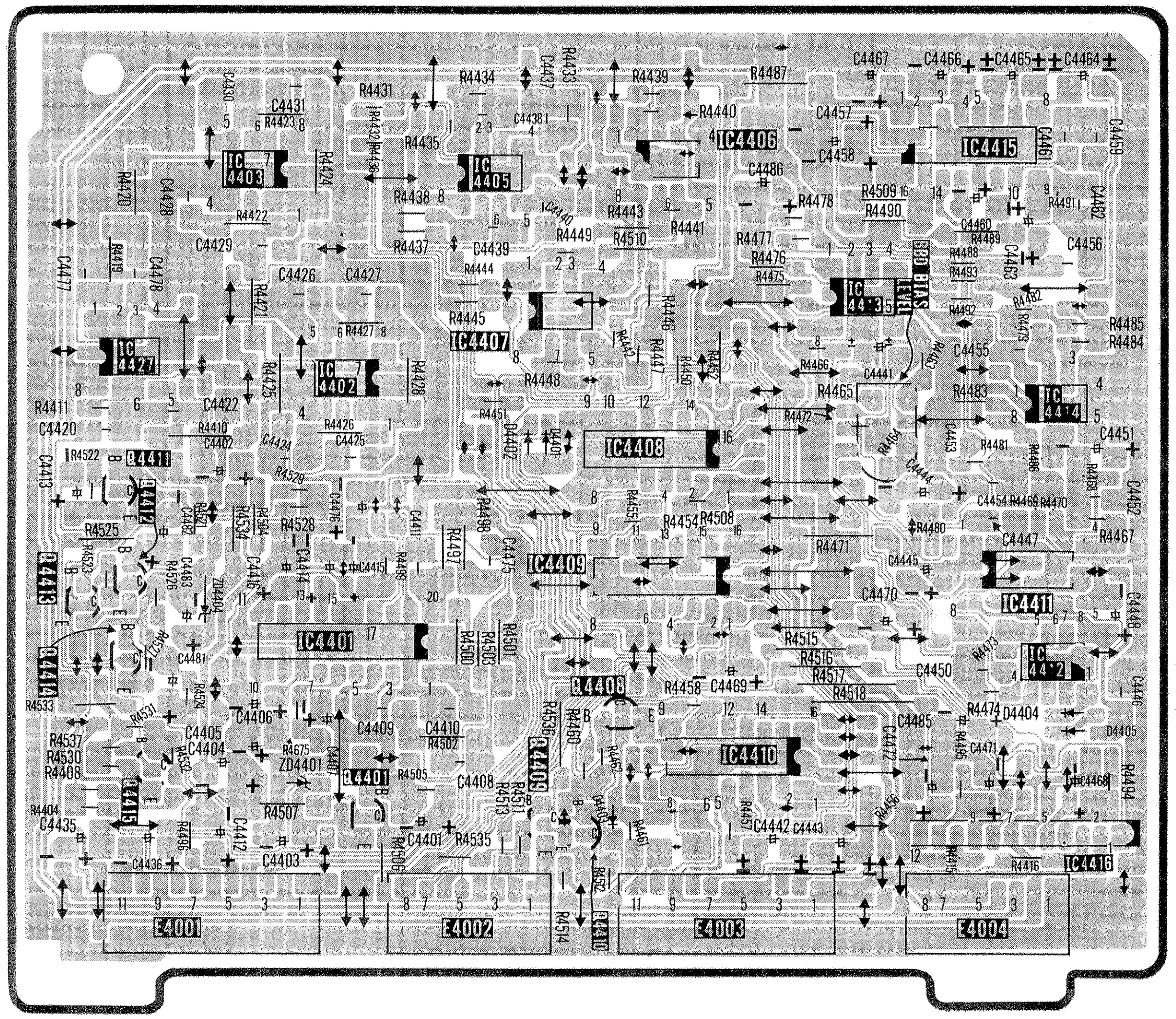

R972
R974
C954
C965
D931
L972
Q905
IC910
+12V Reg.
C973
L984
R940
C974
J20
D929
Q906
Q907
R958
J19
R953
R955
L974
C962
C958
J14
C957
L953
C977
C987
J11
J10
C952
C953
L952
R965
C972
C909
D901
C908
C906
J24
L981
L982
+12V
R941
J23
-12V
D937
C966
R944
R943
R942
Q906
R959
L955
L954
D928
D927
D926
D925
C956
C955
J15
J12
J13
L969
L970
R956
C963
R954
J9
J8
R973
R971
C940
R928
R927
ZD903
C939
C907
J3
P
6 5 4 3 2 1
+ G -12 G +12
-12V
C992
J27
R978
J28
J29
L973
C986
IC911
-25V Reg.
C991
C935
T903
IC902
R929
J4
LIVE
COLD
R975
D932
+12V
J31
J30
C967
R957
Q910
+26V
C983
R976
C959
J22
L975
IC909
+26V Reg.
J21
J17
J18
J16
T902
R919
C923
R918
IC 903
IC 904
PROTECT
L905
R931
+B REG
R967
J2
J5
R932
Q908
C988
R930
C924
C943
D930
ZD906
L915
J1
R904
PD
-25V GND +26V GND +B 130V
C990
ZD901
J32
ZD916
C984
J34
J35
D938
-25V
R926
L919
C934
L918
C989
J33
R968
R961
IC913
-25V Reg.
R945
C964
D910
C933
COLD
R908
D907
L908
C914
R920
R921
R922
D911
D908
C916
IC901
C921
C910
C927
C951
C918
C971
L983
J36
L916
C960
C946
C980
C985
C929
C938
C937
C936
R952
C961
R938
Q904
F905
125V 1.6A
L922
R939
+B 130V
L929
L920
J37
J38
R960
C913
C941
C912
C926
ZD913
L911
R935
C917
R913
L971
R937
R915
D906
Q903
R917
L910
R910
L904
F903
C911
R909
C915
ZD904
R907
R906
L909
L907
CP903
R912
C942
R911
LIVE
DA
2 1
L906
J7
D
Q902
G
S
D
4 3 2 1
G +12V G +36V
C976
125V 4A
F904
AUDIO+36V
C928
D909
125V 4A

## CONTROL P.W.B.

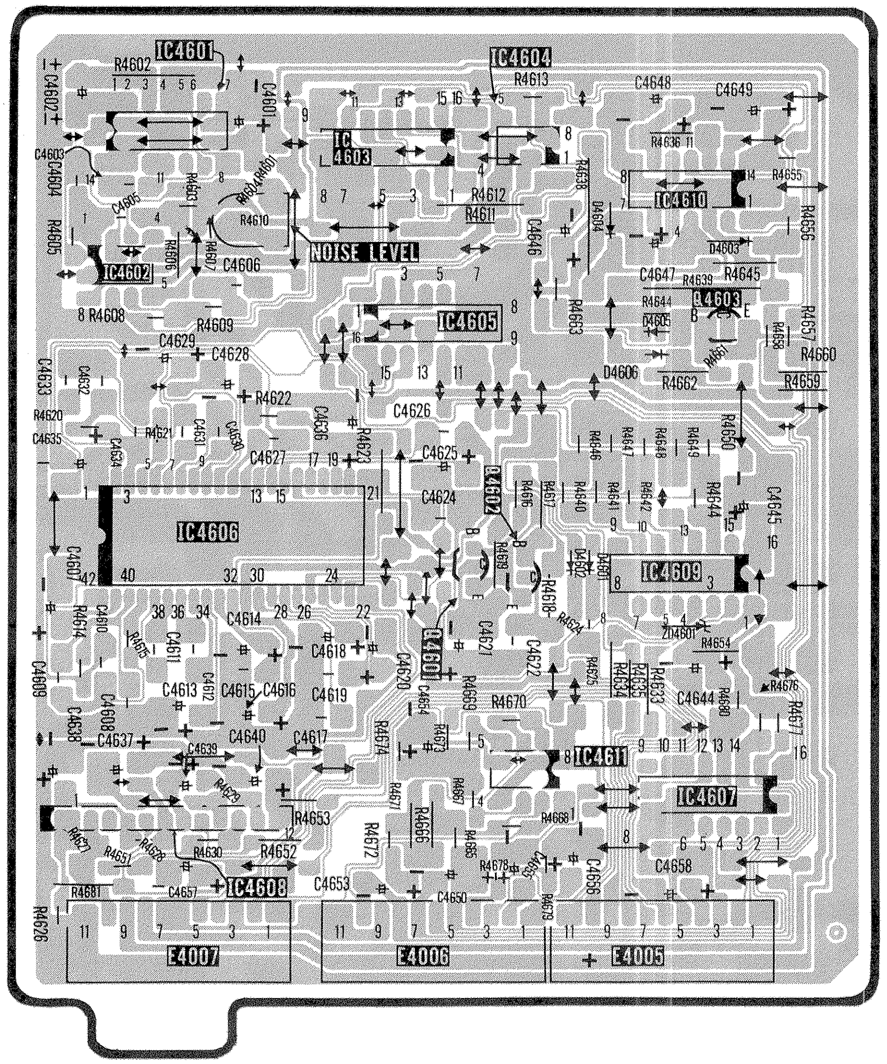

CP1401
C1401
D1401
C1402
R1403
Q1401
R1401
ZD1401
R1404
R1402
J1C
S1401
POWER SW
C
5
1
AP CONTROL P.W.B
2803321C
Y102 ▲
V.HOLD
R1415
IN PUT BALANCE
R1432
S1402
J2C
R1414
J3C
R1413
J4C
J5C
J6C
J7C
R1410
R1411
R1412
VH
CD
CS
CY
2 1
4 1
9
10
1
L
R
V
S

# PRINTED WIRING BOARD

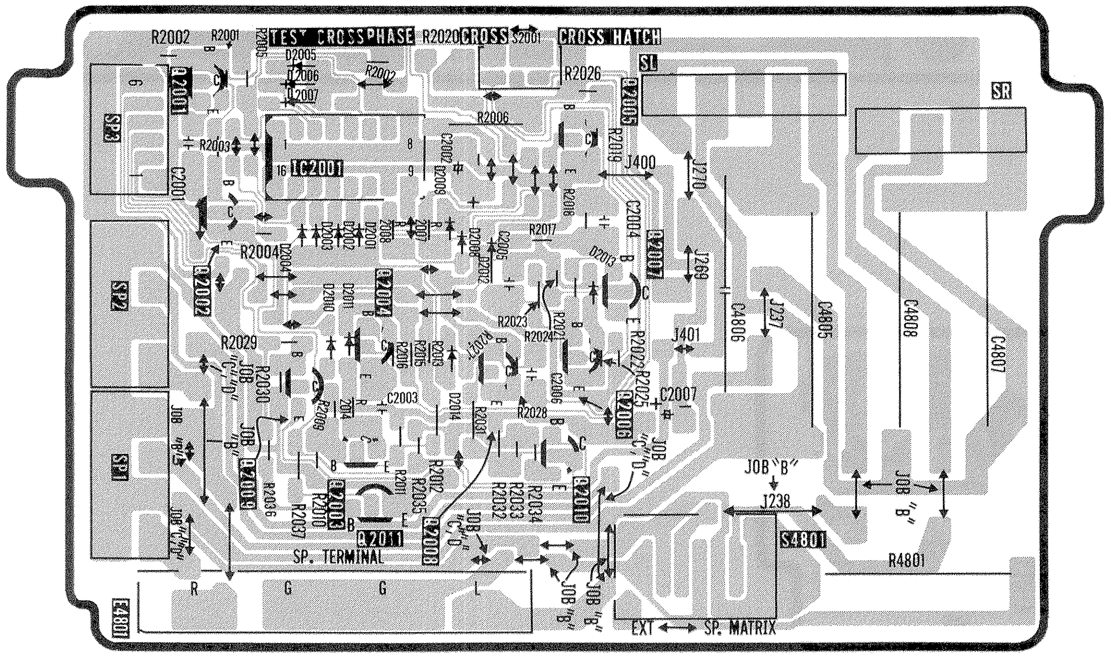
## 3-WAY P.W.B.


IC4401
IC4402
IC4403
IC4405
IC4406
IC4407
IC4408
IC4409
IC4410
IC4411
IC4412
IC4414
IC4415
IC4427
IC4435
Q4401
Q4408
Q4409
Q4410
Q4411
Q4412
Q4413
Q4414
Q4415
Q4416
BDD BIAS LEVEL
E4001
E4002
E4003
E4004

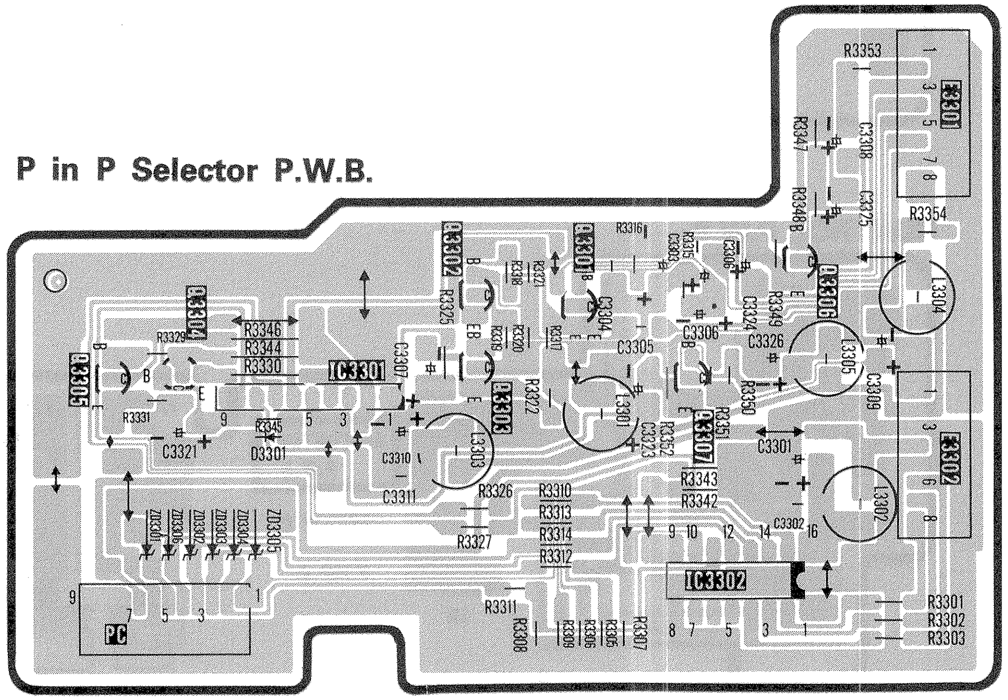
## PRO-LOGIC P.W.B.


IC4601
IC4602
IC4603
IC4604
IC4605
IC4606
IC4607
IC4608
IC4609
IC4610
IC4611
Q4601
Q4602
Q4603
NOISE LEVEL
E4005
E4006
E4007

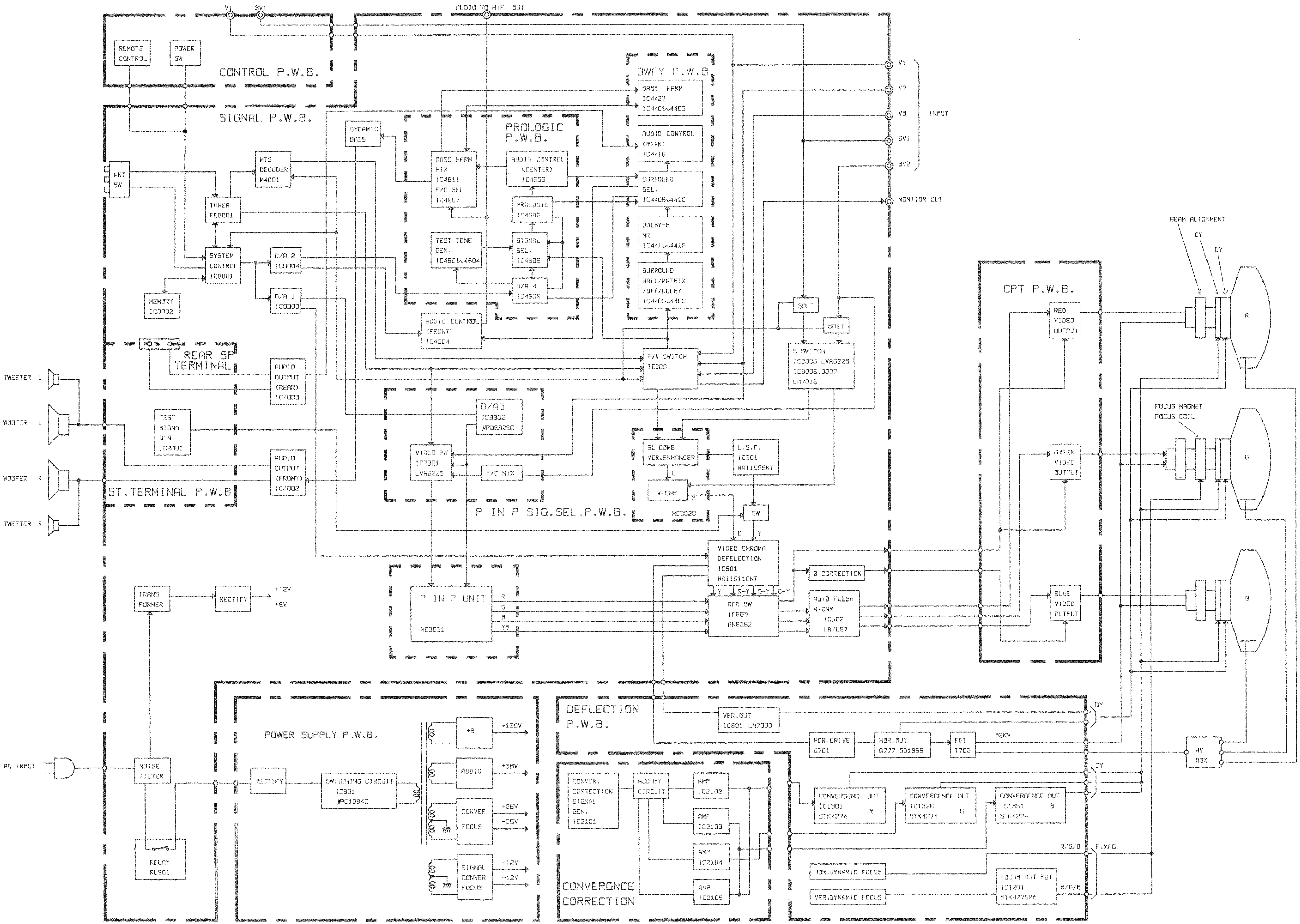
## SP TERMINAL P.W.B.


TEST CROSSPHASE
CROSS
CROSS HATCH
IC2001
Q2001
Q2002
Q2003
Q2004
Q2005
Q2006
Q2007
Q2008
Q2009
Q2010
Q2011
SL
SR
SP1
SP2
SP3
SP. TERMINAL
S4801
J401
J400
J238
JOB "B"
EXT ⟷ SP. MATRIX
E4801
R
G
L

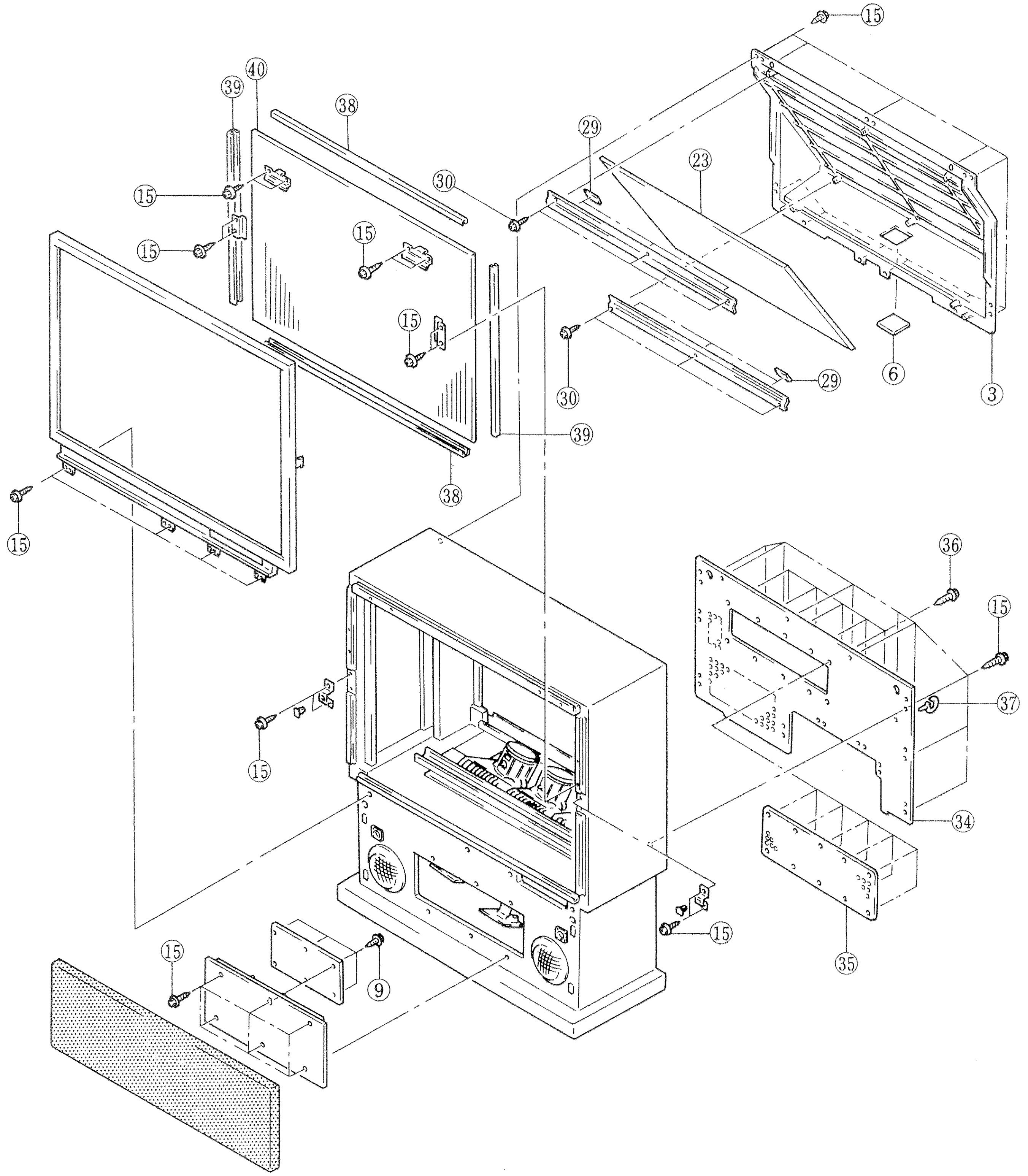
## P in P Selector P.W.B.


IC3301
IC3302
Q3301
Q3302
Q3303
Q3304
Q3305
Q3306
Q3307
E3301
E3302
L3301
L3302
L3303
L3304
L3305
PC

# BLOCK DIAGRAM


V1
SV1
AUDIO TO HiFi OUT
REMOTE CONTROL
POWER SW
CONTROL P.W.B.
SIGNAL P.W.B.
ANT SW
TUNER FE0001
MTS DECODER M4001
SYSTEM CONTROL IC0001
MEMORY IC0002
D/A 2 IC0004
D/A 1 IC0003
DYDAMIC BASS
PROLOGIC P.W.B.
BASS HARM HIX IC4611 F/C SEL IC4607
AUDIO CONTROL (CENTER) IC4608
PROLOGIC IC4609
TEST TONE GEN. IC4601~4604
SIGNAL SEL. IC4605
D/A 4 IC4609
AUDIO CONTROL (FRONT) IC4004
3WAY P.W.B
BASS HARM IC4427 IC4401~4403
AUDIO CONTROL (REAR) IC4416
SURROUND SEL. IC4405~4410
DOLBY-B NR IC4411~4415
SURROUND HALL/MATRIX /OFF/DOLBY IC4405~4409
V1
V2
V3
SV1
SV2
INPUT
MONITOR OUT
SDET
SDET
A/V SWITCH IC3001
S SWITCH IC3005 LVA6225 IC3006,3007 LA7016
REAR SP TERMINAL
AUDIO OUTPUT (REAR) IC4003
TEST SIGNAL GEN IC2001
AUDIO OUTPUT (FRONT) IC4002
ST.TERMINAL P.W.B
TWEETER L
WOOFER L
WOOFER R
TWEETER R
D/A3 IC3302 μPD6326C
VIDEO SW IC3301 LVA6225
Y/C MIX
P IN P SIG.SEL.P.W.B.
3L COMB VER.ENHANCER
C
V-CNR
3
HC3020
L.S.P. IC301 HA11559NT
SW
C
Y
VIDEO CHROMA DEFLECTION IC501 HA11511CNT
Y
R-Y
G-Y
B-Y
RGB SW IC503 AN5352
B CORRECTION
AUTO FLESH H-CNR IC502 LA7697
P IN P UNIT
HC3031
R
G
B
YS
TRANS FORMER
RECTIFY
+12V
+5V
CPT P.W.B.
RED VIDEO OUTPUT
GREEN VIDEO OUTPUT
BLUE VIDEO OUTPUT
BEAM ALIGNMENT
CY
DY
R
FOCUS MAGNET
FOCUS COIL
G
B
AC INPUT
NOISE FILTER
RELAY RL901
POWER SUPPLY P.W.B.
RECTIFY
SWITCHING CIRCUIT IC901 μPC1094C
+B
+130V
AUDIO
+38V
CONVER FOCUS
+25V
-25V
SIGNAL CONVER FOCUS
+12V
-12V
DEFLECTION P.W.B.
VER.OUT IC601 LA7838
DY
HOR.DRIVE Q701
HOR.OUT Q777 SD1959
FBT T702
32KV
HV BOX
CY
CONVER. CORRECTION SIGNAL GEN. IC2101
ADJUST CIRCUIT
AMP IC2102
AMP IC2103
AMP IC2104
AMP IC2105
CONVERGNCE CORRECTION
CONVERGENCE OUT IC1301 R STK4274
CONVERGENCE OUT IC1326 G STK4274
CONVERGENCE OUT IC1351 B STK4274
R/G/B
F.MAG.
HOR.DYNAMIC FOCUS
VER.DYNAMIC FOCUS
FOCUS OUT PUT IC1201 STK4275MB
R/G/B

## EXPLODED VIEW (1/3)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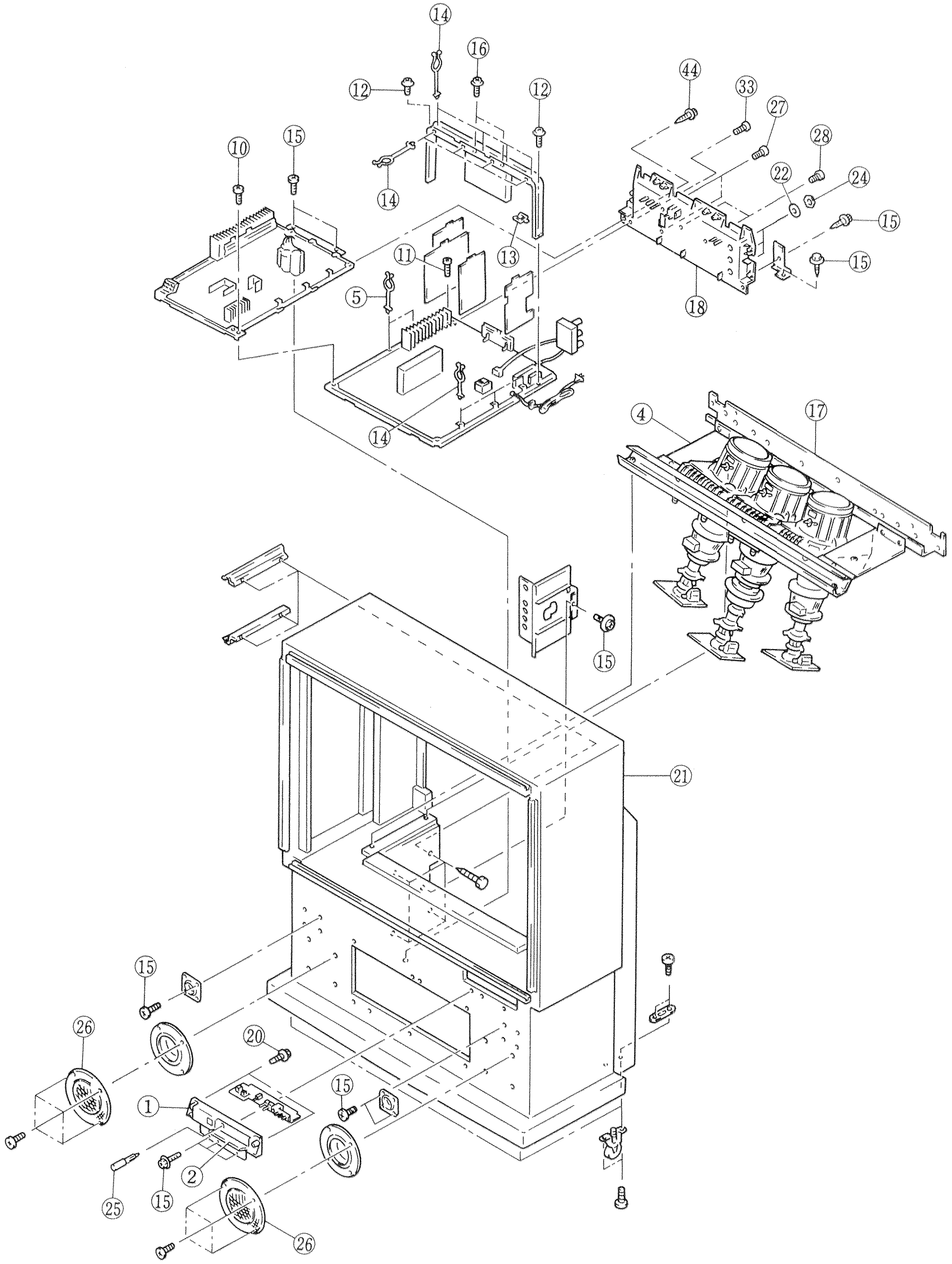
## EXPLODED VIEW (2/3)


⑭
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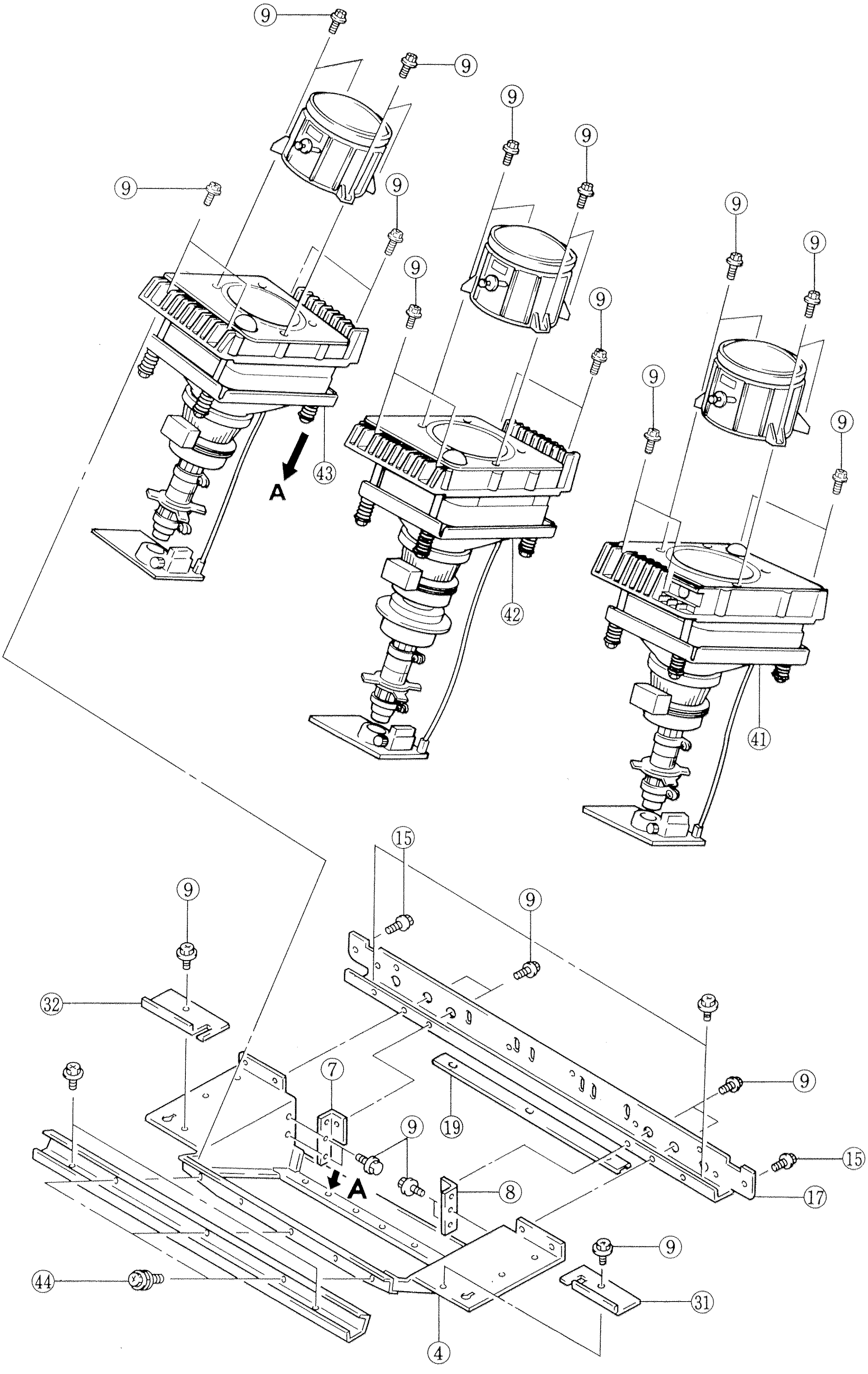
## EXPLODED VIEW (3/3)


9
9
9
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9
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9
43
A
42
41
15
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32
9
7
19
9
15
17
A
8
9
44
31
4

## REPLACEMENT PARTS LIST

**PRODUCT SAFETY NOTE:** Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| **ABBREVIATIONS** | | |
|---|---|---|
| | Capacitors ......... | CD:Ceramic disk, PF:Polyester film, EL:Electrolytic, PP:Polypropylene, PR:Paper, TA:Tantalum, TM:Trimmer. |
| | Resistors .......... | CF:Carbon film, CC:Carbon composition, MF:Metal oxide film, VR:Variable resistor, WW:Wire would, FR:Fuse resistor, MG:Metal glazed |
| | Semiconductor .... | TR:Transistor, DI:Diode, ZD:Zener diode, VA:Varistor, TH:Thermistor, IC:IC. |

| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| | | | C0046 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| | | **CAPACITORS** | C0047 | 0890084 | CD 560PF +-10% 50V |
| | | | C0048 | 0880013 | PF 0.033MF +-10% 50V |
| C0001 | 0247854 | CD 100PF +-5% 500V | C0049 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C0002 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C0051 | 0251089 | EL 4.7MF 25V |
| C0005 | 0248690 | CD 180PF +-5% 50V | C0052 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C0006 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C0053 | 0880044 | PF 0.01MF +-10% 50V |
| C0007 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C0055 | 0880009 | PF 0.01MF +-10% 50V |
| C0008 | 0880016 | PF 0.1MF +-10% 50V | C0056 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0009 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C0057 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0010 | 0244105 | CD 2200PF +-10% 50V | C0058 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0011 | 0880012 | PF 0.022MF +-10% 50V | C1111 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C0012 | 0248672 | CD 33PF +-5% 50V | C1112 | 0244141 | CD 0.01MF +-10% 50V |
| C0013 | 0248672 | CD 33PF +-5% 50V | C1113 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C0014 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1114 | 0244141 | CD 0.01MF +-10% 50V |
| C0015 | 0880016 | PF 0.1MF +-10% 50V | C1115 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0016 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1116 | 0244141 | CD 0.01MF +-10% 50V |
| C0017 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1117 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C0018 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1118 | 0244141 | CD 0.01MF +-10% 50V |
| C0019 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1226 | 0890074 | CD 100PF +-5% 50V |
| C0020 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1227 | 0890074 | CD 100PF +-5% 50V |
| C0021 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1276 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C0022 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1277 | 0880018 | PF 0.22MF +-10% 50V |
| C0023 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1278 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C0024 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1280 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C0025 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1291 | 0299996 | PP 0.033MF. +-5% 630V |
| C0026 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C1293 | 0299610F | PP 1000PF +-5% 630V |
| C0027 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1301 | 0244139 | CD 1000PF +-10% 50V |
| C0028 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C1302 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0029 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1312 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0030 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C1326 | 0244139 | CD 1000PF +-10% 50V |
| C0031 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C1327 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0032 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C1336 | 0244139 | CD 1000PF +-10% 50V |
| C0033 | 0880057 | PF 0.1MF +-10% 50V | C1337 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0034 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V | C1351 | 0244139 | CD 1000PF +-10% 50V |
| C0035 | 0800047 | CAPACITOR ELECTROLYTIC 100MF 6.3V | C1352 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0036 | 0880053 | PF 0.047MF +-10% 50V | C1362 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C0037 | 0880009 | PF 0.01MF +-10% 50V | C1387 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C0038 | 0244501 | CD 1000PF +-10% 500V | C1388 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C0039 | 0252419 | EL 3.3MF 50V | C1389 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C0041 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C1391 | 0248688 | CD 150PF +-5% 50V |
| C0042 | 0247854 | CD 100PF +-5% 500V | C1393 | 0248688 | CD 150PF +-5% 50V |
| C0043 | 0247854 | CD 100PF +-5% 500V | C1395 | 0248688 | CD 150PF +-5% 50V |
| C0044 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C1401 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C1402 | 0890087 | CD 1000PF +-10% 50V |
| C2001 | 0880044 | PF 0.01MF +-10% 50V |
| C2002 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C2003 | 0890083 | CD 470PF +-10% 50V |
| C2004 | 0890085 | CD680PF +-10% 50V |
| C2005 | 0880031 | PF 1000PF +-10% 50V |
| C2006 | 0890121 | CD 33PF +-5% 50V |
| C2007 | 0800058 | CAPACITOR ELECTROLYTIC 220MF 16V |
| C2101 | 0244136 | CD 270PF +-10% 50V |
| C2102 | 0880001 | PF 680PF +-10% 50V |
| C2104 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2105 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2106 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2107 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2112 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V |
| C2113 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2117 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2124 | 0880005 | PF 2200PF +-10% 50V |
| C2126 | 0299001 | PP 0.001MF +-2% 100V |
| C2127 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2129 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2131 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2137 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2138 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2139 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2140 | 0880014 | PF 0.047MF +-10% 50V |
| C2142 | 0880016 | PF 0.1MF +-10% 50V |
| C2143 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C2144 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C2145 | 0244141 | CD 0.01MF +-10% 50V |
| C2146 | 0244141 | CD 0.01MF +-10% 50V |
| C2147 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C2148 | 0252417 | EL 1MF 50V |
| C2149 | 0252417 | EL 1MF 50V |
| C2150 | 0252417 | EL 1MF 50V |
| C2151 | 0252417 | EL 1MF 50V |
| C2152 | 0252417 | EL 1MF 50V |
| C2153 | 0252417 | EL 1MF 50V |
| C2154 | 0244229 | CD 150PF +-10% 50V |
| C2155 | 0244141 | CD 0.01MF +-10% 50V |
| C2156 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C2160 | 0880011 | PF 0.015MF +-10% 50V |
| C2161 | 0880009 | PF 0.01MF +-10% 50V |
| C2162 | 0299029 | PP 0.015MF +-2% 100V |
| C2163 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2164 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2166 | 0880013 | PF 0.033MF +-10% 50V |
| C2175 | 0299029 | PP 0.015MF +-2% 100V |
| C2176 | 0880009 | PF 0.01MF +-10% 50V |
| C2177 | 0880011 | PF 0.015MF +-10% 50V |
| C2178 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2179 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2180 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2181 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2182 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2183 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2184 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2185 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2186 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2187 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2188 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2189 | 0880013 | PF 0.033MF +-10% 50V |
| C2190 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2191 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C2192 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C2301 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C2302 | 0244118 | CD 470PF +-10% 50V |
| C2303 | 0244120 | CD 820PF +-10% 50V |
| C2304 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C2309 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C3001 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3002 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C301 | 0252396 | EL 10MF 16V |
| C3013 | 0248662 | CD 12PF +-5% 50V |
| C3014 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3016 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3017 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3018 | 0880044 | PF 0.01MF +-10% 50V |
| C302 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3020 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C303 | 0890067 | CD33PF +-5% 50V |
| C3030 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3031 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3032 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C3033 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3035 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3036 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3037 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3038 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C304 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3044 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3045 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3046 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C305 | 0244171 | CD 0.01MF +80-20% 50V |
| C3052 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3053 | 0252398 | EL 47MF 16V |
| C3055 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3057 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3058 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3059 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C306 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3062 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3063 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C307 | 0244171 | CD 0.01MF +80-20% 50V |
| C3071 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3072 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3073 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3076 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3077 | 0880009 | PF 0.01MF +-10% 50V |
| C3078 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C3079 | 0880009 | PF 0.01MF +-10% 50V | C333 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C308 | 0890115 | CD12PF +-5% 50V | C334 | 0244171 | CD 0.01MF +80-20% 50V |
| C3080 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C335 | 0880057 | PF 0.1MF +-10% 50V |
| C3081 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C336 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3082 | 0880009 | PF 0.01MF +-10% 50V | C337 | 0890083 | CD 470PF +-10% 50V |
| C3083 | 0880009 | PF 0.01MF +-10% 50V | C339 | 0284667 | EL 47MF 16V |
| C3084 | 0880009 | PF 0.01MF +-10% 50V | C340 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3085 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4001 | 0252953 | EL 4700MF 16V |
| C3086 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4002 | 0259411F | EL 3300MF 50V |
| C3087 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4003 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C3088 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4004 | 0880057 | PF 0.1MF +-10% 50V |
| C3089 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4005 | 0880057 | PF 0.1MF +-10% 50V |
| C309 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4006 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3090 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4007 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3091 | 0880016 | PF 0.1MF +-10% 50V | C4008 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3092 | 0880016 | PF 0.1MF +-10% 50V | C4009 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C310 | 0244171 | CD 0.01MF +80-20% 50V | C4010 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C311 | 0244171 | CD 0.01MF +80-20% 50V | C4011 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C312 | 0890059 | CD 9PF +-0.5% 50V | C4012 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C313 | 0244171 | CD 0.01MF +80-20% 50V | C4013 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C314 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4014 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C315 | 0244171 | CD 0.01MF +80-20% 50V | C4015 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C316 | 0244171 | CD 0.01MF +80-20% 50V | C4016 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C317 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4017 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C318 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4018 | 0880031 | PF 1000PF +-10% 50V |
| C319 | 0890084 | CD 560PF +-10% 50V | C4019 | 0800067 | CAPACITOR,ELECTROLYTIC 330MF 25V |
| C320 | 0890087 | CD 1000PF +-10% 50V | C4020 | 0880031 | PF 1000PF +-10% 50V |
| C321 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V | C4021 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C322 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4022 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C323 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4024 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C324 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4025 | 0251087 | EL 1MF 25V |
| C325 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4026 | 0880053 | PF 0.047MF +-10% 50V |
| C326 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4027 | 0880053 | PF 0.047MF +-10% 50V |
| C327 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4028 | 0251087 | EL 1MF 25V |
| C328 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4029 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C329 | 0244171 | CD 0.01MF +80-20% 50V | C4030 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C330 | 0244171 | CD 0.01MF +80-20% 50V | C4031 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C3301 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4032 | 0800082 | CAPACITOR ELECTROLYTIC 1000MF 16V |
| C3302 | 0880044 | PF 0.01MF +-10% 50V | C4033 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C3303 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4034 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C3304 | 0880044 | PF 0.01MF +-10% 50V | C4035 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3305 | 0880057 | PF 0.1MF +-10% 50V | C4036 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V |
| C3306 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4037 | 0880057 | PF 0.1MF +-10% 50V |
| C3307 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4038 | 0800077 | CAPACITOR,ELECTROLYTIC 470MF 50V |
| C3308 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4039 | 0880057 | PF 0.1MF +-10% 50V |
| C3309 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4040 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C331 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V | C4041 | 0880031 | PF 1000PF +-10% 50V |
| C3310 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4042 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3311 | 0880044 | PF 0.01MF +-10% 50V | C4043 | 0800067 | CAPACITOR,ELECTROLYTIC 330MF 25V |
| C332 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4044 | 0880031 | PF 1000PF +-10% 50V |
| C3321 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4045 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C3323 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4047 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C3324 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4048 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C3325 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4049 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V |
| C3326 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4050 | 0880057 | PF 0.1MF +-10% 50V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C4051 | 0880057 | PF 0.1MF +-10% 50V | C4437 | 0248684 | CD 100PF +-5% 50V |
| C4052 | 0800077 | CAPACITOR,ELECTROLYTIC 470MF 50V | C4438 | 0248684 | CD 100PF +-5% 50V |
| C4053 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4439 | 0248688 | CD 150PF +-5% 50V |
| C4054 | 0880044 | PF 0.01MF +-10% 50V | C4440 | 0880035 | PF 2200PF +-10% 50V |
| C4055 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4441 | 0252417 | EL 1MF 50V |
| C4058 | 0880057 | PF 0.1MF +-10% 50V | C4442 | 0252417 | EL 1MF 50V |
| C4059 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4443 | 0252417 | EL 1MF 50V |
| C4060 | 0880057 | PF 0.1MF +-10% 50V | C4444 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4061 | 0880057 | PF 0.1MF +-10% 50V | C4445 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C4062 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4446 | 0880044 | PF 0.01MF +-10% 50V |
| C4063 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4447 | 0880044 | PF 0.01MF +-10% 50V |
| C4064 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4448 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4065 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4450 | 0248684 | CD 100PF +-5% 50V |
| C4066 | 0800083 | CAPACITOR ELECTROLYTIC 1000MF 25V | C4451 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4067 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4452 | 0244139 | CD 1000PF +-10% 50V |
| C4068 | 0800007 | CAPACITOR,ELECTROLYTIC 3.3MF 50V | C4453 | 0244109 | CD 4700PF +-10% 50V |
| C4070 | 0800026 | CAPACITOR ELECTROLYTIC 22MF 50V | C4454 | 0880041 | PF 5600PF +-10% 50V |
| C4071 | 0800026 | CAPACITOR ELECTROLYTIC 22MF 50V | C4455 | 0249093 | CD 470PF +-5% 50V |
| C4072 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4456 | 0880041 | PF 5600PF +-10% 50V |
| C4073 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4457 | 0800105 | CAPACITOR ELECTROLYTIC 0.33MF 50V |
| C4074 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4458 | 0800101 | CAPACITOR ELECTROLYTIC 0.1MF 50V |
| C4075 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4459 | 0880049 | PF 0.027MF +-10% 50V |
| C4076 | 0800082 | CAPACITOR ELECTROLYTIC 1000MF 16V | C4460 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4077 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4461 | 0880053 | PF 0.047MF +-10% 50V |
| C4078 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V | C4462 | 0880039 | PF 4700PF +-10% 50V |
| C4079 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4463 | 0252417 | EL 1MF 50V |
| C4081 | 0880057 | PF 0.1MF +-10% 50V | C4464 | 0252417 | EL 1MF 50V |
| C4401 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4465 | 0252410 | EL 10MF 35V |
| C4402 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4466 | 0800059 | CAPACITOR ELECTROLYTIC 220MF 25V |
| C4403 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4467 | 0800051 | CAPACITOR ELECTROLYTIC 100MF 25V |
| C4404 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4468 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4405 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V | C4469 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4406 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V | C4470 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4407 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4471 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4408 | 0880057 | PF 0.1MF +-10% 50V | C4472 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4409 | 0880055 | PF 0.068MF +-10% 50V | C4475 | 0880051 | PF 0.033MF +-10% 50V |
| C4410 | 0880037 | PF 3300PF +-10% 50V | C4476 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4411 | 0248640 | CD 10PF +-0.25% 50V | C4477 | 0880033 | PF 1500PF +-10% 50V |
| C4412 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4478 | 0880051 | PF 0.033MF +-10% 50V |
| C4413 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V | C4481 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4414 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4482 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4415 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V | C4483 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4416 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V | C4485 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4420 | 0880048 | PF 0.022MF +-10% 50V | C4486 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C4422 | 0880048 | PF 0.022MF +-10% 50V | C4601 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4424 | 0880035 | PF 2200PF +-10% 50V | C4602 | 0252417 | EL 1MF 50V |
| C4425 | 0880048 | PF 0.022MF +-10% 50V | C4603 | 0880044 | PF 0.01MF +-10% 50V |
| C4426 | 0244104 | CD 1800PF +-10% 50V | C4604 | 0244139 | CD 1000PF +-10% 50V |
| C4427 | 0880048 | PF 0.022MF +-10% 50V | C4605 | 0880044 | PF 0.01MF +-10% 50V |
| C4428 | 0244104 | CD 1800PF +-10% 50V | C4606 | 0880044 | PF 0.01MF +-10% 50V |
| C4429 | 0880051 | PF 0.033MF +-10% 50V | C4607 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4430 | 0880034 | PF 1800PF +-10% 50V | C4608 | 0244117 | CD 680PF +-10% 50V |
| C4431 | 0880013 | PF 0.033MF +-10% 50V | C4609 | 0880057 | PF 0.1MF +-10% 50V |
| C4435 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4610 | 0880057 | PF 0.1MF +-10% 50V |
| C4436 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V | C4611 | 0880019 | PF 0.33MF +-10% 50V |

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|---|---|---|
| C4612 | 0880019 | PF 0.33MF +-10% 50V |
| C4613 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4614 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4615 | 0244111 | CD 6800PF +-10% 50V |
| C4616 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4617 | 0880062 | PF 0.22MF +-10% 50V |
| C4618 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4619 | 0880062 | PF 0.22MF +-10% 50V |
| C4620 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4621 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4622 | 0276673 | PF 0.47MF +-10% 50V |
| C4624 | 0880062 | PF 0.22MF +-10% 50V |
| C4625 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4626 | 0880062 | PF 0.22MF +-10% 50V |
| C4627 | 0244111 | CD 6800PF +-10% 50V |
| C4628 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4629 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C4630 | 0880057 | PF 0.1MF +-10% 50V |
| C4631 | 0880057 | PF 0.1MF +-10% 50V |
| C4632 | 0880057 | PF 0.1MF +-10% 50V |
| C4633 | 0880057 | PF 0.1MF +-10% 50V |
| C4634 | 0244117 | CD 680PF +-10% 50V |
| C4635 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4636 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4637 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4638 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4639 | 0800103 | CAPACITOR ELECTROLYTIC 0.22MF 50V |
| C4640 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4644 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4645 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4646 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4647 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C4648 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4649 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C4650 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4653 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4654 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C4655 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4656 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4657 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C4658 | 0800016 | CAPACITOR ELECTROLYTIC 10MF 25V |
| C4805 | 0257048 | EL 2.2MF 25V |
| C4806 | 0257048 | EL 2.2MF 25V |
| C4807 | 0257048 | EL 2.2MF 25V |
| C4808 | 0257048 | EL 2.2MF 25V |
| C501 | 0880009 | PF 0.01MF +-10% 50V |
| C502 | 0890063 | CD 15PF +-5% 50V |
| C503 | 0880009 | PF 0.01MF +-10% 50V |
| C504 | 0880009 | PF 0.01MF +-10% 50V |
| C505 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C506 | 0244171 | CD 0.01MF +80-20% 50V |
| C507 | 0244171 | CD 0.01MF +80-20% 50V |
| C508 | 0246443 | CD 13PF +-5% 50V |
| C509 | 0244171 | CD 0.01MF +80-20% 50V |
| C510 | 0800001 | CAPACITOR ELECTROLYTIC 0.47MF 50V |
| C511 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C512 | 0880009 | PF 0.01MF +-10% 50V |
| C513 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C515 | 0890076 | CD 150PF +-10% 50V |
| C516 | 0890076 | CD 150PF +-10% 50V |
| C517 | 0890076 | CD 150PF +-10% 50V |
| C518 | 0890067 | CD 33PF +-5% 50V |
| C519 | 0890067 | CD 33PF +-5% 50V |
| C520 | 0890067 | CD 33PF +-5% 50V |
| C521 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C522 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C523 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C524 | 0244171 | CD 0.01MF +80-20% 50V |
| C525 | 0244171 | CD 0.01MF +80-20% 50V |
| C526 | 0244171 | CD 0.01MF +80-20% 50V |
| C527 | 0244171 | CD 0.01MF +80-20% 50V |
| C528 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C601 | 0880009 | PF 0.01MF +-10% 50V |
| C602 | 0880014 | PF 0.047MF +-10% 50V |
| C603 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C604 | 0880005 | PF 2200PF +-10% 50V |
| C605 | 0880006 | PF 3300PF +-10% 50V |
| C606 | 0880016 | PF 0.1MF +-10% 50V |
| C607 | 0880006 | PF 3300PF +-10% 50V |
| C651 | 0279859 | PF 0.1MF +-10% 100V |
| C652 | 0880013 | PF 0.033MF +-10% 50V |
| C653 | 0880044 | PF 0.01MF +-10% 50V |
| ⚠C654 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C655 | 0252969 | EL 2200MF 25V |
| C656 | 0800069 | CAPACITOR,ELECTROLYTIC 330MF 50V |
| C658 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C659 | 0251087 | EL 1MF 25V |
| ⚠C660 | 0292716 | TA 1MF +-10% 20V |
| C664 | 0800074 | CAPACITOR ELECTROLYTIC 470MF 16V |
| C665 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C666 | 0800012 | CAPACITOR ELECTROLYTIC 4.7MF 50V |
| C668 | 0880044 | PF 0.01MF +-10% 50V |
| C669 | 0880018 | PF 0.22MF +-10% 50V |
| C670 | 0880018 | PF 0.22MF +-10% 50V |
| C7001 | 0890084 | CD 560PF +-10% 50V |
| C7002 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C7003 | 0244104 | CD 1800PF +-10% 50V |
| C7004 | 0880012 | PF 0.022MF +-10% 50V |
| C7005 | 0890083 | CD 470PF +-10% 50V |
| C7006 | 0890087 | CD 1000PF +-10% 50V |
| C7007 | 0880014 | PF 0.047MF +-10% 50V |
| C7008 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C7009 | 0880004 | PF 1500PF +-10% 50V |
| C7010 | 0244107 | CD 3300PF +-10% 50V |
| C7012 | 0880012 | PF 0.022MF +-10% 50V |
| C7013 | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C7014 | 0880014 | PF 0.047MF +-10% 50V |
| C7015 | 0800015 | CAPACITOR,ELECTROLYTIC 10MF 16V |
| C711 | 0299926 | PP 0.1MF +-10% 200V |
| C713 | 0244501 | CD 1000PF +-10% 500V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C714 | 0243507 | CD 330PF +-10% 500V |
| C715 | 0890028 | CD 330PF +-10% 50V |
| ⚠C717 | 0299939 | PP 0.012MF 1600V |
| ⚠C718 | 0299668 | PP 3600PF +-5% 1600V |
| ⚠C719 | 0299931 | PP 0.27MF +-10% 200V |
| ⚠C721 | 0299920 | PP 0.033MF +-10% 200V |
| C722 | 0259471 | EL 6.8MF 25V |
| ⚠C723 | 0249458 | CD 180 PF +-10% DC2.5KV |
| C724 | 0259153 | EL 220MF 160V |
| C727 | 0244504 | CD 1800PF +-10% 500V |
| C729 | 0253483 | EL 33MF 350V |
| C731 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| ⚠C732 | 0299636 | PP 0.068MF +-5% 1600V |
| C738 | 0243510 | CD 560PF +-10% 500V |
| C739 | 0890087 | CD 1000PF +-10% 50V |
| C740 | 0252417 | EL 1MF 50V |
| C743 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C744 | 0880048 | PF 0.022MF +-10% 50V |
| C745 | 0880057 | PF 0.1MF +-10% 50V |
| ⚠C747 | 0299932 | PP 0.33MF +-10% 200V |
| C748 | 0247850 | CD 68PF +-5% 500V |
| C750 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C751 | 0244507 | CD 3300PF +-10% 500V |
| C755 | 0244109 | CD 4700PF +-10% 50V |
| C757 | 0251089 | EL 4.7MF 25V |
| C759 | 0800007 | CAPACITOR,ELECTROLYTIC 3.3MF 50V |
| C760 | 0243503 | CD 150PF +-10% 500V |
| C763 | 0890089 | CD 1500PF +-10% 50V |
| C781 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C782 | 0244120 | CD 820PF +-10% 50V |
| C801G | 0257543 | EL 3.3MF 315V |
| C804B | 0243425 | CD 100PF +-10% 1.6KV |
| C804G | 0243425 | CD 100PF +-10% 1.6KV |
| C804R | 0243425 | CD 100PF +-10% 1.6KV |
| C805B | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C805G | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C805R | 0800049 | CAPACITOR,ELECTROLYTIC 100MF 16V |
| C807B | 0244105 | CD 2200PF +-10% 50V |
| C807G | 0244105 | CD 2200PF +-10% 50V |
| C807R | 0244105 | CD 2200PF +-10% 50V |
| C808B | 0244120 | CD 820PF +-10% 50V |
| C808G | 0244120 | CD 820PF +-10% 50V |
| C808R | 0244115 | CD 560PF +-10% 50V |
| C809R | 0244227 | CD 100PF +-10% 50V |
| C901 | 0800075 | CAPACITOR ELECTROLYTIC 470MF 25V |
| ⚠C902 | 0279718 | PF 0.1MF +-10% 125V |
| ⚠C903 | 0279718 | PF 0.1MF +-10% 125V |
| ⚠C906 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C907 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C908 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C909 | 0248593F | CD 4700PF +80-20% 250V |
| ⚠C910 | 0259167 | EL 820MF 200V |
| ⚠C911 | 0244501 | CD 1000PF +-10% 500V |
| C912 | 0244501 | CD 1000PF +-10% 500V |
| C913 | 0299929 | PP 0.18MF +-10% 200V |
| C914 | 0243503 | CD 150PF +-10% 500V |
| C915 | 0890087 | CD 1000PF +-10% 50V |
| C916 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C917 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C918 | 0880018 | PF 0.22MF +-10% 50V |
| C921 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C923 | 0800009 | CAPACITOR ELECTROLYTIC 4.7MF 25V |
| C924 | 0276223 | PF 3300PF +-5% 50V |
| C926 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| ⚠C927 | 0249487 | CD 3300PF +-20% |
| C928 | 0243511 | CD 680PF +-10% 500V |
| C929 | 0258178G | EL 470MF,63V |
| C933 | 0299969 | PP 1000PF +-5% 630V |
| C934 | 0299969 | PP 1000PF +-5% 630V |
| C935 | 0258697 | EL 470MF 160V |
| C936 | 0253460 | EL 100MF 160V |
| C937 | 0244105 | CD 2200PF +-10% 50V |
| C938 | 0880009 | PF 0.01MF +-10% 50V |
| C939 | 0800018 | CAPACITOR ELECTROLYTIC 10MF 50V |
| C940 | 0800005 | CAPACITOR,ELECTROLYTIC 2.2MF 50V |
| C941 | 0890067 | CD 33PF +-5% 50V |
| C942 | 0880018 | PF 0.22MF +-10% 50V |
| C943 | 0253943 | EL 0.33MF 50V |
| C946 | 0247854 | CD 100PF +-5% 500V |
| ⚠C951 | 0259167 | EL 820MF 200V |
| C952 | 0258178G | EL 470MF,63V |
| C953 | 0243511 | CD 680PF +-10% 500V |
| C954 | 0880018 | PF 0.22MF +-10% 50V |
| C955 | 0243503 | CD 150PF +-10% 500V |
| C956 | 0243503 | CD 150PF +-10% 500V |
| C957 | 0258178G | EL 470MF,63V |
| C958 | 0258175 | EL 470MF 31.5V |
| C959 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C960 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C961 | 0800041 | CAPACITOR ELECTROLYTIC 47MF 16V |
| C962 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C963 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C964 | 0800023 | CAPACITOR ELECTROLYTIC 22MF 16V |
| C965 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C966 | 0800044 | CAPACITOR ELECTROLYTIC 47MF 50V |
| C967 | 0800003 | CAPACITOR ELECTROLYTIC 1MF 50V |
| C971 | 0880018 | PF 0.22MF +-10% 50V |
| C972 | 0800032 | CAPACITOR-ELECTROLYTIC 33MF 16V |
| C973 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C974 | 0800042 | CAPACITOR ELECTROLYTIC 47MF 25V |
| C976 | 0258179G | EL 1000MF,6 |
| C977 | 0243503 | CD 150PF +-10% 500V |
| C980 | 0247850 | CD 68PF +-5% 500V |
| C983 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C984 | 0800053 | CAPACITOR ELECTROLYTIC 100MF 50V |
| C985 | 0258178G | EL 470MF,63V |
| C986 | 0880018 | PF 0.22MF +-10% 50V |
| C987 | 0258175 | EL 470MF 31.5V |
| C988 | 0244115F | CD 560PF +-10% 50V |
| C989 | 0880018 | PF 0.22MF +-10% 50V |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| C990 | 0880018 | PF 0.22MF +-10% 50V |
| C991 | 0880018 | PF 0.22MF +-10% 50V |
| C992 | 0880018 | PF 0.22MF +-10% 50V |
| | | **RESISTORS** |
| R0001 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0002 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0003 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0004 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0005 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0006 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0007 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0008 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0009 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0012 | 0700061 | CF 33K OHM +-5% 1/16W |
| R0013 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0014 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0015 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0016 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0017 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0018 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0019 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0020 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0021 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0022 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0023 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0024 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0025 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0026 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0027 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0028 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0029 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0030 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0031 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0032 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0033 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0034 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0036 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0037 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0040 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0041 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R0042 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0043 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0044 | 0700064 | CF 56K OHM +-5% 1/16W |
| R0045 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0046 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0047 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0048 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0049 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0050 | 0700063 | CF 47K OHM +-5% 1/16W |
| R0051 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0052 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0053 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0054 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0055 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0056 | 0700064 | CF 56K OHM +-5% 1/16W |
| R0057 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R0058 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R0059 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0060 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0061 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0062 | 0700061 | CF 33K OHM +-5% 1/16W |
| R0063 | 0700027 | CF 100 OHM +-5% 1/16W |
| R0065 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0066 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0067 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R0068 | 0700031 | CF 180 OHM +-5% 1/16W |
| R0069 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R0070 | 0700066 | CF 82K OHM +-5% 1/16W |
| R0071 | 0700066 | CF 82K OHM +-5% 1/16W |
| R0072 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0073 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0074 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0075 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0076 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0077 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0078 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0079 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0080 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0081 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0082 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0083 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0084 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0085 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0086 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0087 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0088 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0089 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0094 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0095 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0096 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0097 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0098 | 0700036 | CF 470 OHM +-5% 1/16W |
| R0099 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R0100 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0101 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0102 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0103 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0104 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0105 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0106 | 0700056 | CF 15K OHM +-5% 1/16W |
| R0107 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0108 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0109 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0110 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0111 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0112 | 0700039 | CF 820 OHM +-5% 1/16W |
| R0113 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0114 | 0700039 | CF 820 OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R0115 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0174 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0116 | 0700039 | CF 820 OHM +-5% 1/16W | R0177 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0117 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0184 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0118 | 0114169 | CF 2.2K OHM +-5% 1/4W | R0185 | 0700037 | CF 560 OHM +-5% 1/16W |
| R0119 | 0700027 | CF 100 OHM +-5% 1/16W | R0186 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R0120 | 0114161 | CF 1K OHM +-5% 1/4W | R0187 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0121 | 0700027 | CF 100 OHM +-5% 1/16W | R0188 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0122 | 0114161 | CF 1K OHM +-5% 1/4W | R0189 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0123 | 0700027 | CF 100 OHM +-5% 1/16W | R0190 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0124 | 0700041 | CF 1K OHM +-5% 1/16W | R0191 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0125 | 0700067 | CF 100K OHM +-5% 1/16W | R0192 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0126 | 0700054 | CF 10K OHM +-5% 1/16W | R0194 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0127 | 0700046 | CF 2.7K OHM +-5% 1/16W | R0195 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0128 | 0700054 | CF 10K OHM +-5% 1/16W | R0196 | 0100065 | CF 1K OHM +-5% 1/8W |
| R0129 | 0700041 | CF 1K OHM +-5% 1/16W | R0197 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0130 | 0700067 | CF 100K OHM +-5% 1/16W | R0198 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0131 | 0700054 | CF 10K OHM +-5% 1/16W | R0199 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0132 | 0700046 | CF 2.7K OHM +-5% 1/16W | R0200 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0133 | 0700054 | CF 10K OHM +-5% 1/16W | R0204 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0135 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0205 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0136 | 0700052 | CF 6.8K OHM +-5% 1/16W | R0206 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0137 | 0113703 | CF 12 OHM +-5% 1/2W | R0208 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0138 | 0700036 | CF 470 OHM +-5% 1/16W | R0209 | 0700058 | CF 22K OHM +-5% 1/16W |
| ⚠R0139 | 0119687 | FR 4.7 OHM +-5% 1/4W | R0210 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0140 | 0700041 | CF 1K OHM +-5% 1/16W | R0211 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R0141 | 0700041 | CF 1K OHM +-5% 1/16W | R0212 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0142 | 0700041 | CF 1K OHM +-5% 1/16W | R0213 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0143 | 0700063 | CF 47K OHM +-5% 1/16W | R0214 | 0700057 | CF 18K OHM +-5% 1/16W |
| R0144 | 0700041 | CF 1K OHM +-5% 1/16W | R0215 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0145 | 0700048 | CF 3.9K OHM +-5% 1/16W | R0216 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| ⚠R0146 | 0150137 | VR 10K OHM-B | R0217 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0147 | 0100127 | CF 390K OHM +-5% 1/8W | R0218 | 0700027 | CF 100 OHM +-5% 1/16W |
| R0148 | 0100119 | CF 180K OHM +-5% 1/8W | R0219 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0149 | 0100121 | CF 220K OHM +-5% 1/8W | R0220 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0150 | 0700041 | CF 1K OHM +-5% 1/16W | R0221 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0151 | 0700058 | CF 22K OHM +-5% 1/16W | R0222 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0152 | 0700062 | CF 39K OHM +-5% 1/16W | R0224 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R0154 | 0700041 | CF 1K OHM +-5% 1/16W | R0225 | 0700059 | CF 27K OHM +-5% 1/16W |
| R0155 | 0700041 | CF 1K OHM +-5% 1/16W | R0226 | 0700067 | CF 100K OHM +-5% 1/16W |
| R0156 | 0700041 | CF 1K OHM +-5% 1/16W | R0229 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R0157 | 0700048 | CF 3.9K OHM +-5% 1/16W | R0230 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0158 | 0700054 | CF 10K OHM +-5% 1/16W | R0231 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0159 | 0700041 | CF 1K OHM +-5% 1/16W | R1101 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0160 | 0700041 | CF 1K OHM +-5% 1/16W | R1102 | 0700054 | CF 10K OHM +-5% 1/16W |
| R0161 | 0700041 | CF 1K OHM +-5% 1/16W | R1103 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R0163 | 0700041 | CF 1K OHM +-5% 1/16W | R1104 | 0700041 | CF 1K OHM +-5% 1/16W |
| R0165 | 0114161 | CF 1K OHM +-5% 1/4W | R1226 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0166 | 0700058 | CF 22K OHM +-5% 1/16W | ⚠R1227 | 0150136 | VR 5K OHM-B |
| R0167 | 0700051 | CF 5.6K OHM +-5% 1/16W | R1228 | 0700055 | CF 12K OHM +-5% 1/16W |
| R0168 | 0700057 | CF 18K OHM +-5% 1/16W | R1229 | 0700058 | CF 22K OHM +-5% 1/16W |
| R0169 | 0700054 | CF 10K OHM +-5% 1/16W | R1230 | 0113684 | CF 2.2 OHM +-5% 1/2W |
| R0170 | 0700054 | CF 10K OHM +-5% 1/16W | R1231 | 0113774 | CF 10K OHM +-5% 1/2W |
| R0171 | 0700054 | CF 10K OHM +-5% 1/16W | R1232 | 0113701 | CF 10 OHM +-5% 1/2W |
| R0172 | 0700061 | CF 33K OHM +-5% 1/16W | R1233 | 0100081 | CF 4.7K OHM +-5% 1/8W |
| R0173 | 0700041 | CF 1K OHM +-5% 1/16W | R1234 | 0700056 | CF 15K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R1235 | 0700056 | CF 15K OHM +-5% 1/16W |
| R1276 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R1277 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R1278 | 0700066 | CF 82K OHM +-5% 1/16W |
| R1279 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1280 | 0700037 | CF 560 OHM +-5% 1/16W |
| R1281 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R1282 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1283 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1284 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1285 | 0700054 | CF 10K OHM +-5% 1/16W |
| R1286 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R1291 | 0110359 | MF 3.9K OHM +-5% 3W |
| R1293 | 0119722 | MF 1 OHM +-5% 1W |
| R1301 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1302 | 0110229 | MF 220 OHM +-5% 2W |
| R1303 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1304 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1306 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1308 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1309 | 0700056 | CF 15K OHM +-5% 1/16W |
| R1311 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1312 | 0110225 | MF 150 OHM +-5% 2W |
| R1313 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1314 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1316 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1318 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1319 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1326 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1327 | 0110225 | MF 150 OHM +-5% 2W |
| R1328 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1329 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1331 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1336 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1337 | 0110233 | MF 330 OHM +-5% 2W |
| R1338 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1339 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1341 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1351 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1352 | 0110229 | MF 220 OHM +-5% 2W |
| R1353 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1354 | 0113696 | CF 6.8 OHM +-5% 1/2W |
| R1356 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1358 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1359 | 0700056 | CF 15K OHM +-5% 1/16W |
| R1361 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1362 | 0110225 | MF 150 OHM +-5% 2W |
| R1363 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1364 | 0113692 | CF 4.7 OHM +-5% 1/2W |
| R1366 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R1368 | 0700063 | CF 47K OHM +-5% 1/16W |
| R1369 | 0700058 | CF 22K OHM +-5% 1/16W |
| R1370 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1371 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1372 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1373 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1374 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1375 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1376 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1377 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1378 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1379 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1390 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R1401 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R1402 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1403 | 0700041 | CF 1K OHM +-5% 1/16W |
| R1404 | 0700037 | CF 560 OHM +-5% 1/16W |
| R1410 | 0700067 | CF 100K OHM +-5% 1/16W |
| R1411 | 0700067 | CF 100K OHM +-5% 1/16W |
| R1412 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1413 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1414 | 0187038 | CF 75 OHM +-5% 1/16W |
| R1415 | 0159922 | VR 5K OHM-B |
| R1416 | 0700032 | CF 220 OHM +-5% 1/16W |
| R1432 | 0159921 | VR 20K OHM-B RV-9 |
| R2001 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2002 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2003 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2004 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2005 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2006 | 0114131 | CF 100 OHM +-5% 1/4W |
| R2007 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2008 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2009 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2010 | 0700034 | CF 330 OHM +-5% 1/16W |
| R2011 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2012 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2013 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2014 | 0700036 | CF 470 OHM +-5% 1/16W |
| R2015 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2016 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2017 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2018 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2019 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2020 | 0150115 | VR 20K OHM-B |
| R2021 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2022 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2023 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2024 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2025 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2026 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2027 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2028 | 0700034 | CF 330 OHM +-5% 1/16W |
| R2029 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2030 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2031 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2032 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2033 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2034 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2035 | 0700048 | CF 3.9K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R2036 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2037 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2101 | 0150136 | VR 5K OHM-B |
| R2102 | 0150136 | VR 5K OHM-B |
| R2103 | 0150136 | VR 5K OHM-B |
| R2104 | 0150136 | VR 5K OHM-B |
| R2105 | 0150136 | VR 5K OHM-B |
| R2106 | 0150136 | VR 5K OHM-B |
| R2107 | 0150136 | VR 5K OHM-B |
| R2108 | 0150136 | VR 5K OHM-B |
| R2109 | 0150136 | VR 5K OHM-B |
| R2110 | 0150136 | VR 5K OHM-B |
| R2111 | 0150136 | VR 5K OHM-B |
| R2112 | 0150136 | VR 5K OHM-B |
| R2113 | 0150136 | VR 5K OHM-B |
| R2114 | 0150136 | VR 5K OHM-B |
| R2115 | 0150136 | VR 5K OHM-B |
| R2116 | 0150136 | VR 5K OHM-B |
| R2117 | 0150136 | VR 5K OHM-B |
| R2118 | 0150136 | VR 5K OHM-B |
| R2119 | 0150136 | VR 5K OHM-B |
| R2120 | 0150136 | VR 5K OHM-B |
| R2121 | 0150136 | VR 5K OHM-B |
| R2122 | 0150136 | VR 5K OHM-B |
| R2123 | 0150136 | VR 5K OHM-B |
| R2124 | 0150136 | VR 5K OHM-B |
| R2125 | 0150136 | VR 5K OHM-B |
| R2126 | 0150136 | VR 5K OHM-B |
| R2127 | 0150136 | VR 5K OHM-B |
| R2128 | 0150136 | VR 5K OHM-B |
| R2129 | 0150136 | VR 5K OHM-B |
| R2130 | 0150136 | VR 5K OHM-B |
| R2131 | 0150136 | VR 5K OHM-B |
| R2132 | 0150136 | VR 5K OHM-B |
| R2133 | 0150136 | VR 5K OHM-B |
| R2134 | 0150136 | VR 5K OHM-B |
| R2135 | 0150136 | VR 5K OHM-B |
| R2136 | 0150136 | VR 5K OHM-B |
| R2137 | 0150136 | VR 5K OHM-B |
| R2138 | 0150136 | VR 5K OHM-B |
| R2139 | 0150136 | VR 5K OHM-B |
| R2140 | 0150136 | VR 5K OHM-B |
| R2141 | 0150136 | VR 5K OHM-B |
| R2142 | 0150136 | VR 5K OHM-B |
| R2151 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2152 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R2154 | 0187092 | CF 13K OHM+-5% 1/16W |
| R2155 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2156 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2157 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2158 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2162 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2163 | 0100121 | CF 220K OHM +-5% 1/8W |
| R2164 | 0114161 | CF 1K OHM +-5% 1/4W |
| R2165 | 0100087 | CF 8.2K OHM +-5% 1/8W |
| R2166 | 0187072 | CF 2K OHM +-5% 1/16W |
| R2167 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2168 | 0187068 | CF 1.3K OHM +-5% 1/16W |
| R2169 | 0187080 | CF 4.3K OHM +-5% 1/16W |
| R2170 | 0700055 | CF 12K OHM +-5% 1/16W |
| R2171 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2172 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2174 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2175 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2182 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2183 | 0150134 | VR 1K OHM-B |
| R2185 | 0150138 | VR 20K OHM-B |
| R2186 | 0150138 | VR 20K OHM-B |
| R2189 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2190 | 0700057 | CF 18K OHM +-5% 1/16W |
| R2193 | 0150136 | VR 5K OHM-B |
| R2194 | 0150136 | VR 5K OHM-B |
| R2195 | 0150136 | VR 5K OHM-B |
| R2196 | 0150136 | VR 5K OHM-B |
| R2197 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2199 | 0187104 | CF 43K OHM +-5% 1/16W |
| R2200 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2201 | 0187088 | CF 9.1K OHM +-5% 1/16W |
| R2205 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2206 | 0187098 | CF 24K OHM +-5% 1/16W |
| R2208 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2209 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2210 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2211 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2212 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2213 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2217 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2218 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2219 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2220 | 0114161 | CF 1K OHM +-5% 1/4W |
| R2221 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2222 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2223 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2224 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2225 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R2226 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2227 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2228 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2229 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2230 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2231 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2232 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2233 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2234 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2235 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2236 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2237 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2238 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2239 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2240 | 0700054 | CF 10K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R2241 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2242 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2243 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2244 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2245 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2246 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2247 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2250 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2251 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2252 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2253 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2254 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2255 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2256 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2257 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2258 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2259 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2260 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2261 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2262 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2263 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2264 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2265 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2266 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2267 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2268 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2269 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2270 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2271 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2272 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2273 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2274 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2275 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2276 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2277 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2278 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2279 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2280 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2281 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2282 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2283 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2284 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2285 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2286 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2287 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2288 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2289 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2290 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2291 | 0700027 | CF 100 OHM +-5% 1/16W |
| R2292 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2293 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2294 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2295 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2298 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2299 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2300 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2301 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2302 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2303 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2304 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2305 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2306 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2307 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2308 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2309 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2310 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2311 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2312 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2313 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2314 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2315 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2316 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2317 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2318 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2319 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2320 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2321 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2322 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2323 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2324 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2325 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2326 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2327 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2328 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2329 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R2330 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2331 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2332 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2333 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R2334 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2335 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2336 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2337 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R2338 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2339 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2340 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2341 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2342 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2343 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2344 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2345 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2346 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2347 | 0700032 | CF 220 OHM +-5% 1/16W |
| R2348 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2349 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2350 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2352 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2353 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2355 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2356 | 0700041 | CF 1K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R2358 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2359 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2361 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2362 | 0700055 | CF 12K OHM +-5% 1/16W |
| R2363 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2364 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2365 | 0700059 | CF 27K OHM +-5% 1/16W |
| R2366 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2367 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2368 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2369 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2370 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2371 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2372 | 0150134 | VR 1K OHM-B |
| R2373 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2374 | 0700065 | CF 68K OHM +-5% 1/16W |
| R2375 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2376 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2377 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2378 | 0700065 | CF 68K OHM +-5% 1/16W |
| R2379 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2380 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2381 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2383 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2384 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2388 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2389 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2390 | 0700052 | CF6.8K OHM +-5% 1/16W |
| R2391 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2392 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2393 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2394 | 0187082 | CF 5.1K OHM +-5% 1/16W |
| R2396 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2397 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2398 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2399 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2400 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2401 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2402 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2403 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2404 | 0700056 | CF 15K OHM +-5% 1/16W |
| R2405 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2406 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2407 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R2408 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2409 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2410 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2411 | 0700056 | CF 15K OHM +-5% 1/16W |
| R2412 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2413 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2414 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2417 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2419 | 0700065 | CF 68K OHM +-5% 1/16W |
| R2420 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2421 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2422 | 0187090 | CF 11K OHM +-5% 1/16W |
| R2423 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R2424 | 0187110 | CF 75K OHM +-5% 1/16W |
| R2425 | 0700038 | CF 680 OHM +-5% 1/16W |
| R2426 | 0700061 | CF 33K OHM +-5% 1/16W |
| R2427 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R2428 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2429 | 0114177 | CF 4.7K OHM +-5% 1/4W |
| R2441 | 0100124 | CF 300K OHM +-5% 1/8W |
| R2443 | 0700059 | CF 27K OHM +-5% 1/16W |
| R2445 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2446 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2447 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2448 | 0700064 | CF 56K OHM +-5% 1/16W |
| R2449 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2450 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R2451 | 0100081 | CF 4.7K OHM +-5% 1/8W |
| R2454 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2455 | 0700059 | CF 27K OHM +-5% 1/16W |
| R2456 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2466 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2470 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2471 | 0700054 | CF10K OHM +-5% 1/16W |
| R2473 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R2474 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2479 | 0700066 | CF 82K OHM +-5% 1/16W |
| R2480 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2481 | 0700063 | CF 47K OHM +-5% 1/16W |
| R2482 | 0700062 | CF 39K OHM +-5% 1/16W |
| R2483 | 0700039 | CF 820 OHM +-5% 1/16W |
| R2501 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2502 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R2503 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R2504 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R2505 | 0187106 | CF 51K OHM +-5% 1/16W |
| R2506 | 0700054 | CF 10K OHM +-5% 1/16W |
| R2510 | 0700041 | CF 1K OHM +-5% 1/16W |
| R2517 | 0100075 | CF 2.7K OHM +-5% 1/8W |
| R2518 | 0700067 | CF 100K OHM +-5% 1/16W |
| R2519 | 0700058 | CF 22K OHM +-5% 1/16W |
| R2520 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R2521 | 0119514 | FR 10 OHM +-5% 1/4W |
| R2522 | 0119514 | FR 10 OHM +-5% 1/4W |
| R3001 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3002 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3020 | 0700034 | CF 330 OHM +-5% 1/16W |
| R3022 | 0100047 | CF 180 OHM +-5% 1/8W |
| R3025 | 0187038 | CF 75 OHM +-5% 1/16W |
| R3026 | 0187038 | CF 75 OHM +-5% 1/16W |
| R3033 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3035 | 0700067 | CF 100K OHM +-5% 1/16W |
| R3036 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3037 | 0700067 | CF 100K OHM +-5% 1/16W |
| R3038 | 0700025 | CF 68 OHM +-5% 1/16W |
| R3039 | 0700067 | CF 100K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R304 | 0700067 | CF 100K OHM +-5% 1/16W | R3139 | 0700041 | CF 1K OHM +-5% 1/16W |
| R305 | 0700058 | CF 22K OHM +-5% 1/16W | R314 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R306 | 0700055 | CF 12K OHM +-5% 1/16W | ⚠R3140 | 0150137 | VR 10K OHM-B |
| R3063 | 0700027 | CF 100 OHM +-5% 1/16W | R3141 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3065 | 0700039 | CF 820 OHM +-5% 1/16W | R3142 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3066 | 0700041 | CF 1K OHM +-5% 1/16W | ⚠R3143 | 0150137 | VR 10K OHM-B |
| R3068 | 0700041 | CF 1K OHM +-5% 1/16W | R3144 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3069 | 0700041 | CF 1K OHM +-5% 1/16W | R3145 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R307 | 0700058 | CF 22K OHM +-5% 1/16W | ⚠R3146 | 0150137 | VR 10K OHM-B |
| R308 | 0700064 | CF 56K OHM +-5% 1/16W | R3147 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R3081 | 0700041 | CF 1K OHM +-5% 1/16W | R3148 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R3082 | 0700041 | CF 1K OHM +-5% 1/16W | R3149 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3083 | 0700027 | CF 100 OHM +-5% 1/16W | R315 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R3084 | 0700041 | CF 1K OHM +-5% 1/16W | R3150 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3085 | 0700041 | CF 1K OHM +-5% 1/16W | R3151 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3086 | 0700027 | CF 100 OHM +-5% 1/16W | R3152 | 0700032 | CF 220 OHM +-5% 1/16W |
| R309 | 0700052 | CF 6.8K OHM +-5% 1/16W | R3153 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3094 | 0700039 | CF 820 OHM +-5% 1/16W | R3154 | 0700032 | CF 220 OHM +-5% 1/16W |
| R3095 | 0700027 | CF 100 OHM +-5% 1/16W | R3155 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3096 | 0700027 | CF 100 OHM +-5% 1/16W | R3156 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3097 | 0700054 | CF 10K OHM +-5% 1/16W | R3157 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3098 | 0700054 | CF 10K OHM +-5% 1/16W | R3158 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3099 | 0700054 | CF 10K OHM +-5% 1/16W | R316 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R310 | 0700051 | CF 5.6K OHM +-5% 1/16W | R3160 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3100 | 0700054 | CF 10K OHM +-5% 1/16W | R3166 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3101 | 0700027 | CF 100 OHM +-5% 1/16W | R3167 | 0100045 | CF 150 OHM +-5% 1/8W |
| R3103 | 0700031 | CF 180 OHM +-5% 1/16W | R3168 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3104 | 0700063 | CF 47K OHM +-5% 1/16W | R3169 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3105 | 0700063 | CF 47K OHM +-5% 1/16W | R317 | 0700039 | CF 820 OHM +-5% 1/16W |
| R3106 | 0700039 | CF 820 OHM +-5% 1/16W | R3170 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3107 | 0700041 | CF 1K OHM +-5% 1/16W | R3171 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3108 | 0700041 | CF 1K OHM +-5% 1/16W | R3172 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3109 | 0700038 | CF 680 OHM +-5% 1/16W | R3173 | 0700027 | CF 100 OHM +-5% 1/16W |
| R311 | 0700053 | CF 8.2K OHM +-5% 1/16W | R3174 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3111 | 0700027 | CF 100 OHM +-5% 1/16W | R3175 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3112 | 0187038 | CF 75 OHM +-5% 1/16W | R3176 | 0150137 | VR 10K OHM-B |
| R3113 | 0700041 | CF 1K OHM +-5% 1/16W | R3179 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R3114 | 0700067 | CF 100K OHM +-5% 1/16W | R318 | 0100117 | CF 150K OHM +-5% 1/8W |
| R3115 | 0700041 | CF 1K OHM +-5% 1/16W | R3180 | 0700038 | CF 680 OHM +-5% 1/16W |
| R3116 | 0700067 | CF 100K OHM +-5% 1/16W | R3181 | 0700054 | CF 10K OHM +-5% 1/16W |
| R3117 | 0187038 | CF 75 OHM +-5% 1/16W | R319 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3118 | 0700067 | CF 100K OHM +-5% 1/16W | R320 | 0100123 | CF 270K OHM +-5% 1/8W |
| R3119 | 0700067 | CF 100K OHM +-5% 1/16W | R321 | 0700054 | CF 10K OHM +-5% 1/16W |
| R312 | 0700055 | CF 12K OHM +-5% 1/16W | R322 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R3125 | 0700027 | CF 100 OHM +-5% 1/16W | R323 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3126 | 0700034 | CF 330 OHM +-5% 1/16W | R324 | 0700057 | CF 18K OHM +-5% 1/16W |
| R3127 | 0700041 | CF 1K OHM +-5% 1/16W | R325 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3129 | 0700027 | CF 100 OHM +-5% 1/16W | R326 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| ⚠R313 | 0150136 | VR 5K OHM-B | R327 | 0700039 | CF 820 OHM +-5% 1/16W |
| R3130 | 0700047 | CF 3.3K OHM +-5% 1/16W | R328 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R3131 | 0700054 | CF 10K OHM +-5% 1/16W | R329 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R3132 | 0700054 | CF 10K OHM +-5% 1/16W | R3301 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3133 | 0700027 | CF 100 OHM +-5% 1/16W | R3302 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3134 | 0700027 | CF 100 OHM +-5% 1/16W | R3303 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3135 | 0700027 | CF 100 OHM +-5% 1/16W | R3305 | 0700058 | CF 22K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R3306 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3307 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3308 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3309 | 0700058 | CF 22K OHM +-5% 1/16W |
| R331 | 0700038 | CF 680 OHM +-5% 1/16W |
| R3310 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3311 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3312 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3313 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3314 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3315 | 0700067 | CF 100K OHM +-5% 1/16W |
| R3316 | 0700063 | CF 47K OHM +-5% 1/16W |
| R3317 | 0700037 | CF 560 OHM +-5% 1/16W |
| R3318 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3319 | 0187066 | CF 1.1K OHM +-5% 1/16W |
| R332 | 0700034 | CF 330 OHM +-5% 1/16W |
| R3320 | 0700063 | CF 47K OHM +-5% 1/16W |
| R3321 | 0700064 | CF 56K OHM +-5% 1/16W |
| R3322 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R3325 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3326 | 0700036 | CF 470 OHM +-5% 1/16W |
| R3327 | 0700036 | CF 470 OHM +-5% 1/16W |
| R3329 | 0700027 | CF 100 OHM +-5% 1/16W |
| R333 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R3330 | 0700037 | CF 560 OHM +-5% 1/16W |
| R3331 | 0700037 | CF 560 OHM +-5% 1/16W |
| R334 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3342 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3343 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3344 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R3345 | 0700063 | CF 47K OHM +-5% 1/16W |
| R3346 | 0700062 | CF 39K OHM +-5% 1/16W |
| R3347 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3348 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3349 | 0700041 | CF 1K OHM +-5% 1/16W |
| R335 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3350 | 0700061 | CF 33K OHM +-5% 1/16W |
| R3351 | 0700058 | CF 22K OHM +-5% 1/16W |
| R3352 | 0700041 | CF 1K OHM +-5% 1/16W |
| R3353 | 0700027 | CF 100 OHM +-5% 1/16W |
| R3354 | 0700027 | CF 100 OHM +-5% 1/16W |
| R336 | 0700027 | CF 100 OHM +-5% 1/16W |
| R337 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R338 | 0700063 | CF 47K OHM +-5% 1/16W |
| R339 | 0100055 | CF 390 OHM +-5% 1/8W |
| R340 | 0700041 | CF 1K OHM +-5% 1/16W |
| R341 | 0700039 | CF 820 OHM +-5% 1/16W |
| R342 | 0700061 | CF 33K OHM +-5% 1/16W |
| R343 | 0700039 | CF 820 OHM +-5% 1/16W |
| R344 | 0700041 | CF 1K OHM +-5% 1/16W |
| R345 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R346 | 0700054 | CF 10K OHM +-5% 1/16W |
| R347 | 0700058 | CF 22K OHM +-5% 1/16W |
| ⚠R348 | 0150137 | VR 10K OHM-B |
| R349 | 0700059 | CF 27K OHM +-5% 1/16W |
| R350 | 0700059 | CF 27K OHM +-5% 1/16W |
| R3505 | 0700027 | CF 100 OHM +-5% 1/16W |
| R351 | 0700058 | CF 22K OHM +-5% 1/16W |
| R352 | 0700058 | CF 22K OHM +-5% 1/16W |
| R353 | 0700058 | CF 22K OHM +-5% 1/16W |
| R354 | 0700067 | CF 100K OHM +-5% 1/16W |
| R355 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R356 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R358 | 0700041 | CF 1K OHM +-5% 1/16W |
| R359 | 0700054 | CF 10K OHM +-5% 1/16W |
| R361 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R362 | 0700027 | CF 100 OHM +-5% 1/16W |
| R363 | 0700027 | CF 100 OHM +-5% 1/16W |
| R364 | 0100053 | CF 330 OHM +-5% 1/8W |
| R365 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R366 | 0700041 | CF 1K OHM +-5% 1/16W |
| R367 | 0100053 | CF 330 OHM +-5% 1/8W |
| R368 | 0700025 | CF 68 OHM +-5% 1/16W |
| R371 | 0700058 | CF 22K OHM +-5% 1/16W |
| R372 | 0700058 | CF 22K OHM +-5% 1/16W |
| R373 | 0700028 | CF 120 OHM +-5% 1/16W |
| R374 | 0700058 | CF 22K OHM +-5% 1/16W |
| R375 | 0700058 | CF 22K OHM +-5% 1/16W |
| R378 | 0700034 | CF 330 OHM +-5% 1/16W |
| R379 | 0700033 | CF 270 OHM +-5% 1/16W |
| R381 | 0700054 | CF 10K OHM +-5% 1/16W |
| R382 | 0700067 | CF 100K OHM +-5% 1/16W |
| R383 | 0700032 | CF 220 OHM +-5% 1/16W |
| R384 | 0700028 | CF 120 OHM +-5% 1/16W |
| R385 | 0700022 | CF 39 OHM +-5% 1/16W |
| R386 | 0700027 | CF 100 OHM +-5% 1/16W |
| R387 | 0700037 | CF 560 OHM +-5% 1/16W |
| R388 | 0100053 | CF 330 OHM +-5% 1/8W |
| R389 | 0700025 | CF 68 OHM +-5% 1/16W |
| R392 | 0700037 | CF 560 OHM +-5% 1/16W |
| R396 | 0700041 | CF 1K OHM +-5% 1/16W |
| R397 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R398 | 0700032 | CF 220 OHM +-5% 1/16W |
| R399 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4001 | 0110311 | MF 39 OHM +-5% 3W |
| R4003 | 0114161 | CF 1K OHM +-5% 1/4W |
| R4004 | 0114145 | CF 390 OHM +-5% 1/4W |
| R4005 | 0114145 | CF 390 OHM +-5% 1/4W |
| R4010 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4011 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4012 | 0700062 | CF 39K OHM +-5% 1/16W |
| R4014 | 0700034 | CF 330 OHM +-5% 1/16W |
| R4015 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R4016 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4017 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4018 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4019 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4020 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4021 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4022 | 0700051 | CF 5.6K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R4023 | 0700054 | CF 10K OHM +-5% 1/16W | ⚠R4100 | 01195051 | FR 2.2 OHM +-5% 1/4W |
| R4024 | 0700062 | CF 39K OHM +-5% 1/16W | R4101 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4026 | 0700034 | CF 330 OHM +-5% 1/16W | R4103 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4027 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4104 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4028 | 0700041 | CF 1K OHM +-5% 1/16W | R4105 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4029 | 0700041 | CF 1K OHM +-5% 1/16W | R4106 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4030 | 0700067 | CF 100K OHM +-5% 1/16W | R4107 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4031 | 0700041 | CF 1K OHM +-5% 1/16W | R4109 | 0114161 | CF 1K OHM +-5% 1/4W |
| R4032 | 0114139 | CF 220 OHM +-5% 1/4W | R4116 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4034 | 0700063 | CF 47K OHM +-5% 1/16W | R4118 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4035 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4119 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4036 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4120 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4037 | 0700054 | CF 10K OHM +-5% 1/16W | R4121 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4039 | 0700065 | CF 68K OHM +-5% 1/16W | R4122 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4041 | 0700065 | CF 68K OHM +-5% 1/16W | R4124 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4043 | 0700052 | CF 6.8K OHM +-5% 1/16W | R4125 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4045 | 0700054 | CF 10K OHM +-5% 1/16W | R4126 | 0700045 | CF2.2K OHM +-5% 1/16W |
| R4046 | 0700055 | CF 12K OHM +-5% 1/16W | R4127 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4048 | 0700043 | CF 1.5K OHM +-5% 1/16W | R4134 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4049 | 0700038 | CF 680 OHM +-5% 1/16W | R4135 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4050 | 0700037 | CF 560 OHM +-5% 1/16W | R4136 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4051 | 0100121 | CF 220K OHM +-5% 1/8W | R4137 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4052 | 0100121 | CF 220K OHM +-5% 1/8W | R4138 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R4053 | 0700038 | CF 680 OHM +-5% 1/16W | R4139 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4054 | 0700037 | CF 560 OHM +-5% 1/16W | R4140 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4055 | 0700043 | CF 1.5K OHM +-5% 1/16W | R4141 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4057 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4142 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R4058 | 0700054 | CF 10K OHM +-5% 1/16W | R4143 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4059 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4144 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4066 | 0700045 | CF 2.2K OHM +-5% 1/16W | R4146 | 0114139 | CF 220 OHM +-5% 1/4W |
| R4067 | 0700067 | CF 100K OHM +-5% 1/16W | R4147 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4068 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4148 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4069 | 0700054 | CF 10K OHM +-5% 1/16W | R4149 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4070 | 0700067 | CF 100K OHM +-5% 1/16W | R4150 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4073 | 0100061 | CF 680 OHM +-5% 1/8W | R4151 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4074 | 0700065 | CF 68K OHM +-5% 1/16W | R4152 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4076 | 0700063 | CF 47K OHM +-5% 1/16W | R4153 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4077 | 0700049 | CF 4.7K OHM +-5% 1/16W | R4154 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R4079 | 0114139 | CF 220 OHM +-5% 1/4W | R4155 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4080 | 0700061 | CF 33K OHM +-5% 1/16W | R4404 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4081 | 0700054 | CF 10K OHM +-5% 1/16W | R4408 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4082 | 0700054 | CF 10K OHM +-5% 1/16W | R4410 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4083 | 0700041 | CF 1K OHM +-5% 1/16W | R4411 | 0700065 | CF 68K OHM +-5% 1/16W |
| ⚠R4084 | 01195051 | FR 2.2 OHM +-5% 1/4W | R4415 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| ⚠R4085 | 01195051 | FR 2.2 OHM +-5% 1/4W | R4416 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4086 | 0114143 | CF 330 OHM +-5% 1/4W | R4419 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4089 | 0700058 | CF 22K OHM +-5% 1/16W | R4420 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4090 | 0700054 | CF 10K OHM +-5% 1/16W | R4421 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4093 | 0100049 | CF 220 OHM +-5% 1/8W | R4422 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4094 | 0114143 | CF 330 OHM +-5% 1/4W | R4423 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4095 | 0700061 | CF 33K OHM +-5% 1/16W | R4424 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4096 | 0700054 | CF 10K OHM +-5% 1/16W | R4425 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4097 | 0700054 | CF 10K OHM +-5% 1/16W | R4426 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4098 | 0700041 | CF 1K OHM +-5% 1/16W | R4427 | 0100121 | CF 220K OHM +-5% 1/8W |
| ⚠R4099 | 01195051 | FR 2.2 OHM +-5% 1/4W | R4428 | 0100121 | CF 220K OHM +-5% 1/8W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R4431 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4432 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4433 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4434 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4435 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4436 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4437 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4438 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4439 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4440 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4441 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4442 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4443 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4444 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4445 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4446 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4447 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4448 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4449 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4450 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4451 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4452 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4454 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4455 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4456 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4457 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4458 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4460 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4461 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4462 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4463 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4464 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4465 | 0151717 | VR 5K OHM-B R-8 |
| R4466 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4467 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4468 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4469 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4470 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4471 | 0113725 | CF 100 OHM +-5% 1/2W |
| R4472 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4473 | 0700062 | CF 39K OHM +-5% 1/16W |
| R4474 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4475 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4476 | 0187096 | CF 20K OHM +-5% 1/16W |
| R4477 | 0187096 | CF 20K OHM +-5% 1/16W |
| R4478 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4479 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R4480 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R4481 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R4482 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4483 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4484 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4485 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4486 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| ⚠R4487 | 0119514 | FR 10 OHM +-5% 1/4W |
| R4488 | 0700031 | CF 180 OHM +-5% 1/16W |
| R4489 | 0100077 | CF 3.3K OHM +-5% 1/8W |
| R4490 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4491 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4492 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4493 | 0187100 | CF 30K OHM +-5% 1/16W |
| R4494 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4495 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R4496 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4497 | 0100125 | CF 330K OHM +-5% 1/8W |
| R4498 | 0100127 | CF 390K OHM +-5% 1/8W |
| R4499 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4500 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4501 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4502 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4503 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4504 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4505 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4506 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4507 | 0100059 | CF 560 OHM +-5% 1/8W |
| R4508 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4509 | 0100123 | CF 270K OHM +-5% 1/8W |
| R4510 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4511 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4512 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4513 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4514 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4515 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4516 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4517 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4518 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4521 | 0700034 | CF 330 OHM +-5% 1/16W |
| R4522 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4523 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4524 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4525 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4526 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4527 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4528 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4529 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4530 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4531 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4532 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4533 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4534 | 0100059 | CF 560 OHM +-5% 1/8W |
| R4535 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4536 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4537 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4601 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4602 | 0179536 | MG 1M OHM +-5% 1/8W |
| R4603 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4604 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4605 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4606 | 0700063 | CF 47K OHM +-5% 1/16W |
| R4607 | 0700067 | CF 100K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R4608 | 0700053 | CF 8.2K OHM +-5% 1/16W | R4667 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4609 | 0700056 | CF 15K OHM +-5% 1/16W | R4668 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4610 | 0150284 | VR 2K OHM-B | R4669 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4611 | 0700067 | CF 100K OHM +-5% 1/16W | R4670 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4612 | 0700067 | CF 100K OHM +-5% 1/16W | R4671 | 0100117 | CF 150K OHM +-5% 1/8W |
| R4613 | 0700067 | CF 100K OHM +-5% 1/16W | R4672 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4614 | 0700063 | CF 47K OHM +-5% 1/16W | R4673 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4615 | 0187086 | CF 7.5K OHM +-5% 1/16W | R4674 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4616 | 0700054 | CF 10K OHM +-5% 1/16W | R4675 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4617 | 0700054 | CF 10K OHM +-5% 1/16W | R4676 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4618 | 0100129 | CF 470K OHM +-5% 1/8W | R4677 | 0700061 | CF 33K OHM +-5% 1/16W |
| R4619 | 0100129 | CF 470K OHM +-5% 1/8W | R4678 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4620 | 0700063 | CF 47K OHM +-5% 1/16W | R4679 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4621 | 0187086 | CF 7.5K OHM +-5% 1/16W | R4680 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4622 | 0700056 | CF 15K OHM +-5% 1/16W | R4681 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R4623 | 0700056 | CF 15K OHM +-5% 1/16W | R502 | 0700032 | CF 220 OHM +-5% 1/16W |
| R4624 | 0700041 | CF 1K OHM +-5% 1/16W | R503 | 0700037 | CF 560 OHM +-5% 1/16W |
| R4625 | 0700041 | CF 1K OHM +-5% 1/16W | R504 | 0700036 | CF 470 OHM +-5% 1/16W |
| R4626 | 0700054 | CF 10K OHM +-5% 1/16W | R505 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4627 | 0700054 | CF 10K OHM +-5% 1/16W | R506 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4628 | 0700051 | CF 5.6K OHM +-5% 1/16W | R507 | 0700041 | CF 1K OHM +-5% 1/16W |
| R4629 | 0700051 | CF 5.6K OHM +-5% 1/16W | R508 | 0700053 | CF 8.2K OHM +-5% 1/16W |
| R4630 | 0700041 | CF 1K OHM +-5% 1/16W | R509 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4633 | 0700027 | CF 100 OHM +-5% 1/16W | R510 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R4634 | 0700041 | CF 1K OHM +-5% 1/16W | R511 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4635 | 0700041 | CF 1K OHM +-5% 1/16W | R512 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4636 | 0700067 | CF 100K OHM +-5% 1/16W | R513 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4638 | 0179536 | MG 1M OHM +-5% 1/8W | R514 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4639 | 0179536 | MG 1M OHM +-5% 1/8W | R515 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4640 | 0700041 | CF 1K OHM +-5% 1/16W | R516 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4641 | 0700041 | CF 1K OHM +-5% 1/16W | R517 | 0100121 | CF 220K OHM +-5% 1/8W |
| R4642 | 0700041 | CF 1K OHM +-5% 1/16W | R518 | 0700067 | CF 100K OHM +-5% 1/16W |
| R4644 | 0700041 | CF 1K OHM +-5% 1/16W | R519 | 0100125 | CF 330K OHM +-5% 1/8W |
| R4645 | 0700045 | CF 2.2K OHM +-5% 1/16W | R520 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4646 | 0700054 | CF 10K OHM +-5% 1/16W | R521 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4647 | 0700054 | CF 10K OHM +-5% 1/16W | R522 | 0700055 | CF 12K OHM +-5% 1/16W |
| R4648 | 0700054 | CF 10K OHM +-5% 1/16W | R523 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4649 | 0700054 | CF 10K OHM +-5% 1/16W | R526 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R4650 | 0700051 | CF 5.6K OHM +-5% 1/16W | R527 | 0700056 | CF 15K OHM +-5% 1/16W |
| R4651 | 0700041 | CF 1K OHM +-5% 1/16W | R528 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R4652 | 0700041 | CF 1K OHM +-5% 1/16W | R529 | 0700057 | CF 18K OHM +-5% 1/16W |
| R4653 | 0700041 | CF 1K OHM +-5% 1/16W | R530 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4654 | 0100059 | CF 560 OHM +-5% 1/8W | R536 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4655 | 0700041 | CF 1K OHM +-5% 1/16W | R537 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4656 | 0700045 | CF 2.2K OHM +-5% 1/16W | R538 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4657 | 0700067 | CF 100K OHM +-5% 1/16W | R539 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R4658 | 0700067 | CF 100K OHM +-5% 1/16W | R540 | 0700027 | CF 100 OHM +-5% 1/16W |
| R4659 | 0700063 | CF 47K OHM +-5% 1/16W | R542 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4660 | 0700063 | CF 47K OHM +-5% 1/16W | R543 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4661 | 0700063 | CF 47K OHM +-5% 1/16W | R544 | 0700054 | CF 10K OHM +-5% 1/16W |
| R4662 | 0700063 | CF 47K OHM +-5% 1/16W | R545 | 0700058 | CF 22K OHM +-5% 1/16W |
| R4663 | 0700027 | CF 100 OHM +-5% 1/16W | R546 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4664 | 0700067 | CF 100K OHM +-5% 1/16W | R547 | 0700064 | CF 56K OHM +-5% 1/16W |
| R4665 | 0700061 | CF 33K OHM +-5% 1/16W | R548 | 0100133 | CF 680K OHM +-5% 1/8W |
| R4666 | 0100117 | CF 150K OHM +-5% 1/8W | R549 | 0700065 | CF 68K OHM +-5% 1/16W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| R550 | 0700065 | CF 68K OHM +-5% 1/16W |
| R551 | 0700064 | CF 56K OHM +-5% 1/16W |
| R601 | 0700041 | CF 1K OHM +-5% 1/16W |
| R602 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R603 | 0100121 | CF 220K OHM +-5% 1/8W |
| R604 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R605 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R606 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R607 | 0700059 | CF 27K OHM +-5% 1/16W |
| R608 | 0100121 | CF 220K OHM +-5% 1/8W |
| R609 | 0700061 | CF 33K OHM +-5% 1/16W |
| R610 | 0700054 | CF 10K OHM +-5% 1/16W |
| R611 | 0700057 | CF 18K OHM +-5% 1/16W |
| R612 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R613 | 0700027 | CF 100 OHM +-5% 1/16W |
| R614 | 0700027 | CF 100 OHM +-5% 1/16W |
| R651 | 0113725 | CF 100 OHM +-5% 1/2W |
| R652 | 0113725 | CF 100 OHM +-5% 1/2W |
| R653 | 0113725 | CF 100 OHM +-5% 1/2W |
| R654 | 0700027 | CF 100 OHM +-5% 1/16W |
| R656 | 0100053 | CF 330 OHM +-5% 1/8W |
| R658 | 0700041 | CF 1K OHM +-5% 1/16W |
| R659 | 0700041 | CF 1K OHM +-5% 1/16W |
| R660 | 0700061 | CF 33K OHM +-5% 1/16W |
| R661 | 0700054 | CF 10K OHM +-5% 1/16W |
| ⚠R662 | 0150138 | VR 20K OHM-B |
| R663 | 0187096 | CF 20K OHM +-5% 1/16W |
| R664 | 0700039 | CF 820 OHM +-5% 1/16W |
| R665 | 0113684 | CF 2.2 OHM +-5% 1/2W |
| R666 | 0113684 | CF 2.2 OHM +-5% 1/2W |
| R667 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R668 | 0700055 | CF 12K OHM +-5% 1/16W |
| R669 | 0700056 | CF 15K OHM +-5% 1/16W |
| R670 | 0700065 | CF 68K OHM +-5% 1/16W |
| R671 | 0113766 | CF 4.7K OHM +-5% 1/2W |
| R672 | 0110129 | MF 220 OHM +-5% 1W |
| R673 | 0700065 | CF 68K OHM +-5% 1/16W |
| R674 | 0114135 | CF 150 OHM +-5% 1/4W |
| R7001 | 0700039 | CF 820 OHM +-5% 1/16W |
| R7002 | 0100115 | CF 120K OHM +-5% 1/8W |
| R7003 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7004 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R7005 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7006 | 0700049 | CF 4.7K OHM +-5% 1/16W |
| R7007 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R7008 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R7009 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R7010 | 0700024 | CF 56 OHM +-5% 1/16W |
| R7011 | 0700033 | CF 270 OHM +-5% 1/16W |
| R7012 | 0114137 | CF 180 OHM +-5% 1/4W |
| R7014 | 0114147 | CF 470 OHM +-5% 1/4W |
| R7019 | 0700037 | CF 560 OHM +-5% 1/16W |
| R7020 | 0110105 | MF 22 OHM +-5% 1W |
| R7021 | 0100027 | CF 27 OHM +-5% 1/8W |
| R707 | 0700023 | CF 47 OHM +-5% 1/16W |
| ⚠R708 | 0110367 | MF 8.2K OHM +-5% 3W |
| R709 | 0113770 | CF 6.8K OHM +-5% 1/2W |
| ⚠R710 | 0110369 | MF 10K OHM +-5% 3W |
| R711 | 0119688 | MF 0.22 OHM +-5% 1W |
| R712 | 0100039 | CF 82 OHM +-5% 1/8W |
| R719 | 0113789 | CF 39K OHM +-5% 1/2W |
| R720 | 0700054 | CF 10K OHM +-5% 1/16W |
| R721 | 0113793 | CF 56K OHM +-5% 1/2W |
| R722 | 0100091 | CF 12K OHM +-5% 1/8W |
| R723 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R724 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R726 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R727 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R728 | 0187086 | CF 7.5K OHM +-5% 1/16W |
| R729 | 0113727 | CF 120 OHM +-5% 1/2W |
| R732 | 0110129 | MF 220 OHM +-5% 1W |
| ⚠R733 | 01195121 | FR 1 OHM +-5% 1/4W |
| ⚠R734 | 0119514 | FR 10 OHM +-5% 1/4W |
| R739 | 0110145 | MF 1K OHM +-5% 1W |
| ⚠R742 | 0700063 | CF 47K OHM +-5% 1/16W |
| R744 | 0100127 | CF 390K OHM +-5% 1/8W |
| R750 | 0100075 | CF 2.7K OHM +-5% 1/8W |
| R751 | 0113719 | CF 56 OHM +-5% 1/2W |
| R753 | 0110359 | MF 3.9K OHM +-5% 3W |
| R754 | 0113766 | CF 4.7K OHM +-5% 1/2W |
| R755 | 0110359 | MF 3.9K OHM +-5% 3W |
| R759 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R760 | 0700051 | CF 5.6K OHM +-5% 1/16W |
| R761 | 0700057 | CF 18K OHM +-5% 1/16W |
| R762 | 0700056 | CF 15K OHM +-5% 1/16W |
| ⚠R763 | 0150137 | VR 10K OHM-B |
| R764 | 0700038 | CF 680 OHM +-5% 1/16W |
| R765 | 0700057 | CF 18K OHM +-5% 1/16W |
| R766 | 0700039 | CF 820 OHM +-5% 1/16W |
| R767 | 0700054 | CF 10K OHM +-5% 1/16W |
| R768 | 0114149 | CF 560 OHM +-5% 1/4W |
| R769 | 0700054 | CF 10K OHM +-5% 1/16W |
| R770 | 0100117 | CF 150K OHM +-5% 1/8W |
| R771 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R772 | 0100049 | CF 220 OHM +-5% 1/8W |
| R773 | 0700048 | CF 3.9K OHM +-5% 1/16W |
| R779 | 0100065 | CF 1K OHM +-5% 1/8W |
| R780 | 0100041 | CF 100 OHM +-5% 1/8W |
| R781 | 0110279 | MF 27K OHM +-5% 2W |
| R782 | 0110279 | MF 27K OHM +-5% 2W |
| R783 | 0110279 | MF 27K OHM +-5% 2W |
| R784 | 0110279 | MF 27K OHM +-5% 2W |
| R785 | 0110279 | MF 27K OHM +-5% 2W |
| R786 | 0114213 | CF 33K OHM +-5% 1/4W |
| R787 | 0700052 | CF 6.8K OHM +-5% 1/16W |
| R790 | 0700059 | CF 27K OHM +-5% 1/16W |
| R791 | 0110101 | MF 15 OHM +-5% 1W |
| R801B | 0110371 | MF 12K OHM +-5% 3W |
| R801G | 0110371 | MF 12K OHM +-5% 3W |
| R801R | 0110371 | MF 12K OHM +-5% 3W |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R802B | 0110369 | MF 10K OHM +-5% 3W | R927 | 0110369 | MF 10K OHM +-5% 3W |
| R802G | 0110369 | MF 10K OHM +-5% 3W | R928 | 0700037 | CF 560 OHM +-5% 1/16W |
| R802R | 0110369 | MF 10K OHM +-5% 3W | R929 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R803B | 0113744 | CF 560 OHM +-5% 1/2W | R930 | 0700058 | CF 22K OHM +-5% 1/16W |
| R803G | 0113744 | CF 560 OHM +-5% 1/2W | R931 | 0700056 | CF 15K OHM +-5% 1/16W |
| R803R | 0113744 | CF 560 OHM +-5% 1/2W | R932 | 0700027 | CF 100 OHM +-5% 1/16W |
| ⚠R804B | 0151635 | VR 1M OHM-B | R935 | 0700061 | CF 33K OHM +-5% 1/16W |
| ⚠R804G | 0151635 | VR 1M OHM-B | R937 | 0700014 | CF 10 OHM +-5% 1/16W |
| ⚠R804R | 0151635 | VR 1M OHM-B | R938 | 0119693 | MF 0.39 OHM +-5% 1W |
| R805B | 0179534 | MG 470K OHM +-5% 1/2W | R939 | 0700054 | CF 10K OHM +-5% 1/16W |
| R805G | 0179534 | MG 470K OHM +-5% 1/2W | R940 | 0148015 | WW 18 OHM +-10% 2W |
| R805R | 0179534 | MG 470K OHM +-5% 1/2W | R941 | 0700054 | CF 10K OHM +-5% 1/16W |
| R806B | 0179534 | MG 470K OHM +-5% 1/2W | R942 | 0119688 | MF 0.22 OHM +-5% 1W |
| R806G | 0179534 | MG 470K OHM +-5% 1/2W | R943 | 0700054 | CF 10K OHM +-5% 1/16W |
| R806R | 0179534 | MG 470K OHM +-5% 1/2W | R944 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R810B | 0100049 | CF 220 OHM +-5% 1/8W | R945 | 0700063 | CF 47K OHM +-5% 1/16W |
| R810G | 0100049 | CF 220 OHM +-5% 1/8W | R952 | 0700058 | CF 22K OHM +-5% 1/16W |
| R810R | 0100049 | CF 220 OHM +-5% 1/8W | R953 | 0119688 | MF 0.22 OHM +-5% 1W |
| R811B | 0100065 | CF 1K OHM +-5% 1/8W | R954 | 0119688 | MF 0.22 OHM +-5% 1W |
| R811G | 0100065 | CF 1K OHM +-5% 1/8W | R955 | 0700054 | CF 10K OHM +-5% 1/16W |
| R811R | 0100065 | CF 1K OHM +-5% 1/8W | R956 | 0700054 | CF 10K OHM +-5% 1/16W |
| R812B | 0100040 | CF 91 OHM +-5% 1/8W | ⚠R957 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R812G | 0100033 | CF 47 OHM +-5% 1/8W | R958 | 0700044 | CF 1.8K OHM +-5% 1/16W |
| R812R | 0100033 | CF 47 OHM +-5% 1/8W | R959 | 0700054 | CF 10K OHM +-5% 1/16W |
| ⚠R813G | 01513341 | VR 200 OHM-B | R960 | 0110253 | MF 2.2K OHM +-5% 2W |
| ⚠R813R | 01513341 | VR 200 OHM-B | R961 | 0113797 | CF 82K OHM +-5% 1/2W |
| R814R | 0100041 | CF 100 OHM +-5% 1/8W | R965 | 0700042 | CF 1.2K OHM +-5% 1/16W |
| R815B | 0100059 | CF 560 OHM +-5% 1/8W | R967 | 0700046 | CF 2.7K OHM +-5% 1/16W |
| R815G | 0100059 | CF 560 OHM +-5% 1/8W | R968 | 0700047 | CF 3.3K OHM +-5% 1/16W |
| R815R | 0100059 | CF 560 OHM +-5% 1/8W | R971 | 0700043 | CF 1.5K OHM +-5% 1/16W |
| R816B | 0114201 | CF 10K OHM +-5% 1/4W | R972 | 0147726 | WW 4.7 OHM +-10% 10W |
| R816G | 0114201 | CF 10K OHM +-5% 1/4W | R973 | 0119514 | FR 10 OHM +-5% 1/4W |
| R816R | 0114201 | CF 10K OHM +-5% 1/4W | R974 | 0700038 | CF 680 OHM +-5% 1/16W |
| R817B | 0100041 | CF 100 OHM +-5% 1/8W | R975 | 0110137 | MF 470 OHM +-5% 1W |
| R817G | 0100041 | CF 100 OHM +-5% 1/8W | R976 | 0700045 | CF 2.2K OHM +-5% 1/16W |
| R817R | 0100053 | CF 330 OHM +-5% 1/8W | R977 | 0110229 | MF 220 OHM +-5% 2W |
| ⚠R901 | 0139015 | CC 1M OHM +-20% 1/2W | ⚠R978 | 0700041 | CF 1K OHM +-5% 1/16W |
| ⚠R902 | 0144151 | WW 33 OHM +-5% 2W | R979 | 0110225 | MF 150 OHM +-5% 2W |
| ⚠R904 | 0147804 | WW 0.75 OHM 16W | R980 | 0110229 | MF 220 OHM +-5% 2W |
| R906 | 0114049 | CF 22 OHM +-5% 1/4W | R981 | 0100067 | CF 1.2K OHM +-5% 1/8W |
| R907 | 0114161 | CF 1K OHM +-5% 1/4W | R982 | 0100067 | CF 1.2K OHM +-5% 1/8W |
| R908 | 0145042 | MF 22K OHM +-5% 5W | | | |
| ⚠R909 | 0147658 | WW 100 OHM +-5% 7W | | | **ICs** |
| R910 | 0110377 | MF 22K OHM +-5% 3W | | | |
| R911 | 0113795 | CF 68K OHM +-5% 1/2W | IC0001 | 2001452 | IC MN1872012AHHF1 (MICON) |
| ⚠R912 | 0148012 | WW 0.10 OHM +-10% 2W | IC0002 | 2381111 | IC M6M80021L |
| R913 | 0700038 | CF 680 OHM +-5% 1/16W | IC0003 | 2380391 | IC UPD6326C |
| R915 | 0100025 | CF 22 OHM +-5% 1/8W | IC0004 | 2380391 | IC UPD6326C |
| R917 | 0700033 | CF 270 OHM +-5% 1/16W | IC1201 | 2003201 | IC STK4275 (LINEAR) |
| R918 | 0187064 | CF 910 OHM +-5% 1/16W | IC1301 | 2003191 | IC STK4274 (LINEAR) |
| R919 | 0700061 | CF 33K OHM +-5% 1/16W | IC1326 | 2003191 | IC STK4274 (LINEAR) |
| R920 | 0700058 | CF 22K OHM +-5% 1/16W | IC1351 | 2003191 | IC STK4274 (LINEAR) |
| R921 | 0700041 | CF 1K OHM +-5% 1/16W | IC2001 | 2361411 | IC HD14520BP |
| R922 | 0700059 | CF 27K OHM +-5% 1/16W | IC2101 | 2383191 | IC LA7990 |
| ⚠R926 | 0147552 | WW 33 OHM +-5% 5W | IC2102 | 2914051 | IC NJM4560D |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC2103 | 2914051 | IC NJM4560D |
| IC2104 | 2914051 | IC NJM4560D |
| IC2105 | 2914051 | IC NJM4560D |
| IC3001 | 2003811 | IC M52472 (LINEAR) |
| IC3005 | 2383342 | IC LVA522AS-2 (LINEAR) |
| IC3006 | 2917611 | IC LA7016 |
| IC3007 | 2917611 | IC LA7016 |
| IC301 | 2381832 | IC HA11559NT |
| IC3301 | 2383342 | IC LVA522AS-2 (LINEAR) |
| IC3302 | 2380391 | IC UPD6326C |
| IC4001 | 2003425 | IC UPC7815AHF (LINEAR) |
| IC4002 | 2916321 | IC LA4280 |
| IC4003 | 2916321 | IC LA4280 |
| IC4004 | 2366392 | IC AN5836 |
| IC4005 | 2362605 | IC BA4558 |
| IC4401 | 2000991 | IC M51134P (LINEAR) |
| IC4402 | 2362605 | IC BA4558 |
| IC4403 | 2362605 | IC BA4558 |
| IC4405 | 2362605 | IC BA4558 |
| IC4406 | 2362605 | IC BA4558 |
| IC4407 | 2362605 | IC BA4558 |
| IC4408 | 2362651 | IC HD14053BP |
| IC4409 | 2366301 | IC UPD4052BC |
| IC4410 | 2362651 | IC HD14053BP |
| IC4411 | 2380041 | IC MN3008 |
| IC4412 | 2380051 | IC MN3101 |
| IC4413 | 2362605 | IC BA4558 |
| IC4414 | 2362605 | IC BA4558 |
| IC4415 | 2916051 | IC TA7629P |
| IC4416 | 2366392 | IC AN5836 |
| IC4427 | 2362605 | IC BA4558 |
| IC4601 | 2361362 | IC HD14069UBP |
| IC4602 | 2362605 | IC BA4558 |
| IC4603 | 2366301 | IC UPD4052BC |
| IC4604 | 2362605 | IC BA4558 |
| IC4605 | 2362651 | IC HD14053BP |
| IC4606 | 2000331 | IC LA2770 |
| IC4607 | 2362651 | IC HD14053BP |
| IC4608 | 2366392 | IC AN5836 |
| IC4609 | 2380391 | IC UPD6326C |
| IC4610 | 2362641 | IC HD14013BP |
| IC4611 | 2362605 | IC BA4558 |
| IC501 | 2916633 | IC HA11511CNT |
| IC502 | 2003501 | IC LA7697(DS24) (LINEAR) |
| IC503 | 23687211 | IC AN5352 |
| IC504 | 2910815 | IC HD74HC00P |
| IC505 | 2382135 | IC HA178M09 |
| IC601 | 2003541 | IC LA7838 (LINEAR) |
| IC602 | 2003427 | IC UP7824AHF (LINEAR) |
| ⚠IC901 | 2380131 | IC UPC1094C |
| ⚠IC902 | 2381344 | IC SE130N |
| ⚠IC903 | 2000465 | IC PS2501-1 (KC/LC) (PHOTO COUPLER) |
| ⚠IC904 | 2000465 | IC PS2501-1 (KC/LC) (PHOTO COUPLER) |
| IC909 | 2000641 | IC SI-3240C (LINEAR) |
| IC910 | 2000632 | IC SI-3120CA |
| IC911 | 2003413 | IC UP7912HF (LINEAR) |
| IC913 | 2003416 | IC UP7924HF (LINEAR) |
| | | **TRANSISTORS** |
| Q0001 | 2327783 | TR 2SC3553 C/D |
| Q0003 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0004 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0005 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0006 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0007 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0008 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0009 | 2327783 | TR 2SC3553 C/D |
| Q0010 | 2327783 | TR 2SC3553 C/D |
| Q0011 | 2327783 | TR 2SC3553 C/D |
| Q0012 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0013 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0014 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0015 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0016 | 2326216 | TR 2SC3116 S/T |
| Q0017 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0018 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0019 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0020 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0021 | 2312171 | TR 2SC3852 |
| Q0022 | 2327753 | TR 2SA1390 (C)/(D) |
| Q0023 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q0024 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1101 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1276 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1277 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1278 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1279 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q1280 | 2327753 | TR 2SA1390 (C)/(D) |
| Q1401 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2001 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2002 | 2327753 | TR 2SA1390 (C)/(D) |
| Q2003 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2004 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2005 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2006 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2007 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2008 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2009 | 2327753 | TR 2SA1390 (C)/(D) |
| Q2010 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2011 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q2115 | 2320595 | TR 2SC458(D) |
| Q2116 | 2320595 | TR 2SC458(D) |
| Q2122 | 2320595 | TR 2SC458(D) |
| Q2123 | 2320681 | TR 2SA673A B/C |
| Q2124 | 2320681 | TR 2SA673A B/C |
| Q2125 | 2320681 | TR 2SA673A B/C |
| Q2126 | 2320595 | TR 2SC458(D) |
| Q2130 | 2320595 | TR 2SC458(D) |
| Q2131 | 2320595 | TR 2SC458(D) |

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| SYSMBOL NO. | PART NO. | DESCRIPTION | SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| Q2133 | 2320595 | TR 2SC458(D) | Q4024 | 2312171 | TR 2SC3852 |
| Q2141 | 2320663 | TR 2SC1213AC | Q4028 | 2327753 | TR 2SA1390 (C)/(D) |
| Q2142 | 2320595 | TR 2SC458(D) | Q4029 | 2327753 | TR 2SA1390 (C)/(D) |
| Q3007 | 2326021 | TR 2SC1741S | Q4030 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3018 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4031 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3019 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4401 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q302 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4408 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3023 | 2327753 | TR 2SA1390 (C)/(D) | Q4409 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3024 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4410 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3025 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4411 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3026 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4412 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3027 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4413 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q303 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4414 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q304 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q4415 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q305 | 2327753 | TR 2SA1390 (C)/(D) | Q4601 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q306 | 2327753 | TR 2SA1390 (C)/(D) | Q4602 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q307 | 2327753 | TR 2SA1390 (C)/(D) | Q4603 | 2327753 | TR 2SA1390 (C)/(D) |
| Q308 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q501 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q309 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q502 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q310 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q503 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q311 | 2326021 | TR 2SC1741S | Q504 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q312 | 2325702 | TR 2SA854S Q/R | Q505 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q313 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q507 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q314 | 2327753 | TR 2SA1390 (C)/(D) | Q508 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q315 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q509 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q316 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q601 | 2327753 | TR 2SA1390 (C)/(D) |
| Q317 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q602 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q318 | 2327753 | TR 2SA1390 (C)/(D) | Q603 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q321 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q7001 | 2312171 | TR 2SC3852 |
| Q323 | 2327753 | TR 2SA1390 (C)/(D) | ⚠Q701 | 2326216 | TR 2SC3116 S/T |
| Q324 | 2327753 | TR 2SA1390 (C)/(D) | Q707 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3301 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q708 | 2327753 | TR 2SA1390 (C)/(D) |
| Q3302 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q710 | 2323123 | TR 2SD1133 (D) |
| Q3303 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q711 | 2327753 | TR 2SA1390 (C)/(D) |
| Q3304 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q713 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3305 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q714 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q3306 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q777 | 2315271 | TRANSISTOR 2SC4589 |
| Q3307 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q780 | 2314991 | TRANSISTOR 2SC4630 |
| Q4003 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q801B | 2312651 | TR 2SC3503 C/D/E/F |
| Q4004 | 2327753 | TR 2SA1390 (C)/(D) | Q801G | 2312651 | TR 2SC3503 C/D/E/F |
| Q4005 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q801R | 2312651 | TR 2SC3503 C/D/E/F |
| Q4006 | 2327753 | TR 2SA1390 (C)/(D) | Q802B | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4007 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q802G | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4008 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q802R | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4010 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q803B | 2327753 | TR 2SA1390 (C)/(D) |
| Q4011 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q803G | 2327753 | TR 2SA1390 (C)/(D) |
| Q4013 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q803R | 2327753 | TR 2SA1390 (C)/(D) |
| Q4014 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q902 | 2390623 | TRANSISTOR 2SK1181(LF714A) |
| Q4017 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q903 | 2323782 | TR 03P2M |
| Q4018 | 2327783 | TR 2SC3553 C/D | Q904 | 2321112 | TR 2SA778A |
| Q4019 | 2327753 | TR 2SA1390 (C)/(D) | Q905 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4020 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q906 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4021 | 2312941M | TR 2SC3413BC/1740S-QRTA | ⚠Q907 | 2312941M | TR 2SC3413BC/1740S-QRTA |
| Q4022 | 2312941M | TR 2SC3413BC/1740S-QRTA | Q908 | 2327753 | TR 2SA1390 (C)/(D) |
| Q4023 | 2327783 | TR 2SC3553 C/D | Q909 | 2312941M | TR 2SC3413BC/1740S-QRTA |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ⚠Q910 | 2323782 | TR 03P2M |
| | | **DIODES** |
| D0001 | 23383211 | DI 1SS270 |
| D0002 | 23383211 | DI 1SS270 |
| D0003 | 23383211 | DI 1SS270 |
| D0007 | 23383211 | DI 1SS270 |
| D0008 | 23383211 | DI 1SS270 |
| D0009 | 23383211 | DI 1SS270 |
| D0017 | 23383211 | DI 1SS270 |
| D0018 | 23383211 | DI 1SS270 |
| D0019 | 23383211 | DI 1SS270 |
| D0022 | 23383211 | DI 1SS270 |
| D0023 | 23383211 | DI 1SS270 |
| D0024 | 23383211 | DI 1SS270 |
| D0026 | 23383211 | DI 1SS270 |
| D0028 | 23383211 | DI 1SS270 |
| D0031 | 23383211 | DI 1SS270 |
| D0032 | 23383211 | DI 1SS270 |
| D0033 | 23383211 | DI 1SS270 |
| D0034 | 23383211 | DI 1SS270 |
| D0035 | 23383211 | DI 1SS270 |
| D0036 | 23383211 | DI 1SS270 |
| D0037 | 23383211 | DI 1SS270 |
| D0038 | 23383211 | DI 1SS270 |
| D0039 | 23383211 | DI 1SS270 |
| D0040 | 23383211 | DI 1SS270 |
| D0041 | 23383211 | DI 1SS270 |
| D1276 | 23383211 | DI 1SS270 |
| D1301 | 23394911 | DI AM01Z |
| D1401 | 2339691 | LED SLH-56VC77F |
| D2001 | 23383211 | DI 1SS270 |
| D2002 | 23383211 | DI 1SS270 |
| D2003 | 23383211 | DI 1SS270 |
| D2004 | 23383211 | DI 1SS270 |
| D2005 | 23383211 | DI 1SS270 |
| D2006 | 23383211 | DI 1SS270 |
| D2007 | 23383211 | DI 1SS270 |
| D2008 | 23383211 | DI 1SS270 |
| D2009 | 23383211 | DI 1SS270 |
| D2010 | 23383211 | DI 1SS270 |
| D2011 | 23383211 | DI 1SS270 |
| D2012 | 23383211 | DI 1SS270 |
| D2013 | 23383211 | DI 1SS270 |
| D2014 | 23383211 | DI 1SS270 |
| D2101 | 23383211 | DI 1SS270 |
| D2102 | 23383211 | DI 1SS270 |
| D2103 | 23383211 | DI 1SS270 |
| D2104 | 23383211 | DI 1SS270 |
| D2105 | 23383211 | DI 1SS270 |
| D2107 | 23383211 | DI 1SS270 |
| D2108 | 23383211 | DI 1SS270 |
| D2109 | 23383211 | DI 1SS270 |
| D2111 | 23383211 | DI 1SS270 |
| D3001 | 23383211 | DI 1SS270 |
| D3002 | 23383211 | DI 1SS270 |
| D3003 | 23383211 | DI 1SS270 |
| D3004 | 23383211 | DI 1SS270 |
| D3005 | 23383211 | DI 1SS270 |
| D3006 | 23383211 | DI 1SS270 |
| D301 | 23383211 | DI 1SS270 |
| D3012 | 23383211 | DI 1SS270 |
| D3013 | 23383211 | DI 1SS270 |
| D302 | 23383211 | DI 1SS270 |
| D303 | 23383211 | DI 1SS270 |
| D304 | 23383211 | DI 1SS270 |
| D305 | 23383211 | DI 1SS270 |
| D306 | 23383211 | DI 1SS270 |
| D307 | 23383211 | DI 1SS270 |
| D308 | 23383211 | DI 1SS270 |
| D309 | 23383211 | DI 1SS270 |
| D310 | 23383211 | DI 1SS270 |
| D311 | 23383211 | DI 1SS270 |
| D312 | 23383211 | DI 1SS270 |
| D313 | 23383211 | DI 1SS270 |
| D316 | 23383211 | DI 1SS270 |
| D317 | 23383211 | DI 1SS270 |
| D3301 | 23383211 | DI 1SS270 |
| D4002 | 23383211 | DI 1SS270 |
| D4004 | 23383211 | DI 1SS270 |
| D4009 | 23383211 | DI 1SS270 |
| D4010 | 23383211 | DI 1SS270 |
| D4011 | 23383211 | DI 1SS270 |
| D4012 | 23383211 | DI 1SS270 |
| D4013 | 23383211 | DI 1SS270 |
| D4014 | 23383211 | DI 1SS270 |
| D4015 | 23394911 | DI AM01Z |
| D4401 | 23383211 | DI 1SS270 |
| D4402 | 23383211 | DI 1SS270 |
| D4403 | 23383211 | DI 1SS270 |
| D4404 | 23383211 | DI 1SS270 |
| D4405 | 23383211 | DI 1SS270 |
| D4601 | 23383211 | DI 1SS270 |
| D4602 | 23383211 | DI 1SS270 |
| D4603 | 23383211 | DI 1SS270 |
| D4604 | 23383211 | DI 1SS270 |
| D4605 | 23383211 | DI 1SS270 |
| D4606 | 23383211 | DI 1SS270 |
| D501 | 23383211 | DI 1SS270 |
| D502 | 23383211 | DI 1SS270 |
| D503 | 23383211 | DI 1SS270 |
| D507 | 23383211 | DI 1SS270 |
| D508 | 23383211 | DI 1SS270 |
| D651 | 2338902 | DI DFM1SA4 |
| D652 | 2338902 | DI DFM1SA4 |
| D653 | 23394911 | DI AM01Z |
| D654 | 23394911 | DI AM01Z |
| D655 | 23383211 | DI 1SS270 |
| D657 | 23383211 | DI 1SS270 |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D658 | 23394911 | DI AM01Z |
| D659 | 23383211 | DI 1SS270 |
| D660 | 23394911 | DI AM01Z |
| D7001 | 23383211 | DI 1SS270 |
| D7002 | 23383211 | DI 1SS270 |
| D7003 | 23383211 | DI 1SS270 |
| D7004 | 23383211 | DI 1SS270 |
| ⚠D701 | 2330564 | DI V11N |
| ⚠D702 | 2338902 | DI DFM1SA4 |
| ⚠D703 | 2330564 | DI V11N |
| D705 | 2338902 | DI DFM1SA4 |
| ⚠D706 | 2332152 | DI GH3F |
| D707 | 2339531 | DI RG4A |
| D709 | 23383211 | DI 1SS270 |
| D710 | 2334581 | DI ES1A |
| ⚠D711 | 2330564 | DI V11N |
| D728 | 23383211 | DI 1SS270 |
| D781 | 23383211 | DI 1SS270 |
| D801B | 23383211 | DI 1SS270 |
| D801G | 23383211 | DI 1SS270 |
| D801R | 23383211 | DI 1SS270 |
| ⚠D901 | 2338313 | DI RBV-406M |
| D901 | 23394911 | DI AM01Z |
| D902 | 23394911 | DI AM01Z |
| D903 | 23394911 | DI AM01Z |
| D906 | 2398611 | DI 1SS254 |
| D907 | 2338532 | DI EG-01A |
| D908 | 23394811 | DI AS01Z |
| ⚠D909 | 2338944 | DI FML-G12S(F) |
| ⚠D910 | 2338932 | DI FMG-G36S |
| D911 | 23383211 | DI 1SS270 |
| ⚠D925 | 2338944 | DI FML-G12S(F) |
| ⚠D926 | 2338944 | DI FML-G12S(F) |
| ⚠D927 | 2338944 | DI FML-G12S(F) |
| ⚠D928 | 2338944 | DI FML-G12S(F) |
| D929 | 23383211 | DI 1SS270 |
| D930 | 23383211 | DI 1SS270 |
| D931 | 23394911 | DI AM01Z |
| D932 | 23394911 | DI AM01Z |
| D937 | 23394911 | DI AM01Z |
| D938 | 23394911 | DI AM01Z |
| D939 | 23383211 | DI 1SS270 |
| ZD0001 | 2331785 | DIODE-ZENER HZ4(B2) |
| ZD0002 | 2331849 | ZD HZ-12(C3) |
| ZD0003 | 2331845 | ZD HZ12 (B2) |
| ZD0004 | 2331804 | ZD HZ6 (B1) |
| ZD0005 | 2331804 | ZD HZ6 (B1) |
| ZD0006 | 2331833 | ZD HZ11(A)3 |
| ZD0007 | 2339242 | ZD HZS33-2L |
| ZD0014 | 2331819 | ZD HZ7(C)3 |
| ZD0015 | 2331799 | ZD HZ5(C)3 |
| ZD0018 | 2331799 | ZD HZ5(C)3 |
| ZD0019 | 2331804 | ZD HZ6 (B1) |
| ZD0020 | 2339825 | ZD HZS4B2 |
| ZD0021 | 2339839 | ZD HZS5C3 |
| ZD1226 | 2334324 | ZD RD36EB3 |
| ZD1227 | 2334324 | ZD RD36EB3 |
| ZD1301 | 2334324 | ZD RD36EB3 |
| ZD1302 | 2334324 | ZD RD36EB3 |
| ZD1311 | 2334324 | ZD RD36EB3 |
| ZD1312 | 2334324 | ZD RD36EB3 |
| ZD1326 | 2334324 | ZD RD36EB3 |
| ZD1327 | 2334324 | ZD RD36EB3 |
| ZD1336 | 2334324 | ZD RD36EB3 |
| ZD1337 | 2334324 | ZD RD36EB3 |
| ZD1351 | 2334324 | ZD RD36EB3 |
| ZD1352 | 2334324 | ZD RD36EB3 |
| ZD1361 | 2334324 | ZD RD36EB3 |
| ZD1362 | 2334324 | ZD RD36EB3 |
| ZD1401 | 2339839 | ZD HZS5C3 |
| ZD2101 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2102 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2103 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2104 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2105 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2106 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2107 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2108 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2109 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD2110 | 2334285 | DIODE-ZENER RD24EB4 |
| ZD3001 | 2339868M | ZD HZS9C2TA |
| ZD3002 | 2339868M | ZD HZS9C2TA |
| ZD3003 | 2339868M | ZD HZS9C2TA |
| ZD301 | 2331781 | ZD HZ4 (A1) |
| ZD302 | 2339868M | ZD HZS9C2TA |
| ZD303 | 2339868M | ZD HZS9C2TA |
| ZD304 | 2339868M | ZD HZS9C2TA |
| ZD305 | 2339868M | ZD HZS9C2TA |
| ZD306 | 2339868M | ZD HZS9C2TA |
| ZD307 | 2339868M | ZD HZS9C2TA |
| ZD308 | 2334283 | ZD RD24EB2 |
| ZD309 | 2339868M | ZD HZS9C2TA |
| ZD312 | 2339831M | DIODE-ZENER HZS5A1-M |
| ZD313 | 2331849 | ZD HZ-12(C3) |
| ZD314 | 2334303 | ZD RD30EB2 |
| ZD315 | 2331849 | ZD HZ-12(C3) |
| ZD3301 | 2331849 | ZD HZ-12(C3) |
| ZD3302 | 2331799 | ZD HZ5(C)3 |
| ZD3303 | 2331799 | ZD HZ5(C)3 |
| ZD3304 | 2331799 | ZD HZ5(C)3 |
| ZD3305 | 2331799 | ZD HZ5(C)3 |
| ZD3306 | 2331799 | ZD HZ5(C)3 |
| ZD4001 | 2331833 | ZD HZ11(A)3 |
| ZD4002 | 2334283 | ZD RD24EB2 |
| ZD4003 | 2331849 | ZD HZ-12(C3) |
| ZD4004 | 2331849 | ZD HZ-12(C3) |
| ZD4005 | 2331849 | ZD HZ-12(C3) |
| ZD4006 | 2331849 | ZD HZ-12(C3) |
| ZD4007 | 2331849 | ZD HZ-12(C3) |
| ZD4008 | 2331849 | ZD HZ-12(C3) |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ZD4009 | 2331849 | ZD HZ-12(C3) |
| ZD4010 | 2331831 | ZD HZ-11 (A1) |
| ZD4012 | 2331833 | ZD HZ11(A)3 |
| ZD4401 | 2339833 | DIODE-ZENER HZS5A3 |
| ZD4404 | 2330631 | ZD HZ7(A) |
| ZD4601 | 2331795 | ZD HZ-5 (B2) |
| ZD501 | 2331828M | ZD HZ-9C2 TA |
| ZD502 | 2331828M | ZD HZ-9C2 TA |
| ZD503 | 2331828M | ZD HZ-9C2 TA |
| ZD601 | 2331828M | ZD HZ-9C2 TA |
| ZD602 | 2334323M | DIODE-ZENER RD36EB2 |
| ZD603 | 2331828M | ZD HZ-9C2 TA |
| ZD651 | 2331807 | ZD HZ-6 (C1) |
| ZD652 | 2331155 | ZD HZ12 (C1/C2/C3) |
| ZD7001 | 2331828M | ZD HZ-9C2 TA |
| ZD7002 | 2339846M | ZD HZS6B3TA |
| ZD7003 | 2339825 | ZD HZS4B2 |
| ZD7004 | 2331849 | ZD HZ-12(C3) |
| ZD7005 | 2331828M | ZD HZ-9C2 TA |
| ZD709 | 2339801 | ZD HZS2B1 |
| ⚠ZD710 | 2335461 | ZD HZ24 (2L) |
| ZD712 | 2334334 | ZD RD39EB3 |
| ZD801B | 2331827 | ZD HZ-9 (C1) |
| ZD801G | 2331827 | ZD HZ-9 (C1) |
| ZD801R | 2331827 | ZD HZ-9 (C1) |
| ZD901 | 2339031 | ZD HZS6C1L |
| ZD903 | 2334324 | ZD RD36EB3 |
| ZD904 | 2334243 | ZD RD16E(B2) |
| ZD906 | 2339031 | ZD HZS6C1L |
| ZD913 | 2334283 | ZD RD24EB2 |
| ZD916 | 2334304 | ZD RD30EB3 |
| | | **TRANSFORMERS** |
| ⚠T701 | 2260291 | HOLIZONTAL DRIVE TRANSFORMER |
| ⚠T702 | 2436492 | FLYBACK TRANSFORMER |
| ⚠T703 | 2272762 | SPC TRANSFORMER |
| ⚠T901 | 2213993 | POWER TRANSFORMER |
| ⚠T902 | 2215592 | SWITCHING TRANSFORMER |
| ⚠T903 | 2215861 | POWER TRANSFORMER |
| | | **FUSES** |
| ⚠F901 | 2721053 | UL FUSE 5A |
| ⚠F903 | 2721052 | UL FUSE 4A |
| ⚠F904 | 2721052 | UL FUSE 4A |
| ⚠F905 | 2721051 | UL FUSE 1.6A |
| | | **COMPOUND CONPONENTS** |
| CP0001 | 2791754 | DSS306-55B101M |
| CP0002 | 2791754 | DSS306-55B101M |
| CP0003 | 2791754 | DSS306-55B101M |
| CP0004 | 2791754 | DSS306-55B101M |

| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CP1401 | 2381122 | REMOTE CONTROL RECEIVER SPS-409-1Y |
| ⚠CP702 | 0150663 | FOCUS PACK MHF174-03 |
| ⚠CP901 | 2790291 | COMPOUND COMPONENT |
| ⚠CP903 | 2790291 | COMPOUND COMPONENT |
| MF0001 | 2163972 | CERAMIC FILTER 6MHZ |
| MF301 | 2163971 | CERAMIC FILTER |
| MF7001 | 2786683 | CERAMIC OSCILLATOR |
| M301 | 2375231 | CHIP BOARD HC3020 |
| M302 | 2375251 | CHIP BOARD HC3031 |
| M4001 | 2378211 | MODULE MC-7001(B) |
| | | **COILS** |
| L0001 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0002 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0003 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0004 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L0005 | 2122253 | LA AXIAL COIL 100 MICRO H |
| L1291 | 2272753 | FOCUS CHOKE COIL |
| L2101 | 2120484 | FILTER COIL |
| L2102 | 2120484 | FILTER COIL |
| L2103 | 2120484 | FILTER COIL |
| L2104 | 2120484 | FILTER COIL |
| L3002 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3004 | 2122951 | LA AXIAL COIL 39 MICRO H +-10% |
| L3005 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3006 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3007 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3008 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L301 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3011 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3012 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L302 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L303 | 2122942 | LA AXIAL COIL 8.2 MICRO H +-10% |
| L304 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L3301 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3302 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3303 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3304 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L3305 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L501 | 2122951 | LA AXIAL COIL 39 MICRO H +-10% |
| L651 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L701 | 2121181 | FILTER COIL |
| L703 | 2124181 | CHOKE COIL |
| L706 | 2124511 | LINEARITY COIL |
| L707 | 2122095 | FILTER COIL 27 MICRO H |
| L708 | 2120482 | FILTER COIL 100 MICRO H +-10% |
| L709 | 2122094 | FIXED COIL |
| L711 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L802B | 2122255 | LA AXIAL COIL 150 MICRO H |
| L802G | 2122255 | LA AXIAL COIL 150 MICRO H |
| L802R | 2122255 | LA AXIAL COIL 150 MICRO H |
| ⚠L901 | 2229052 | LINE FILTER 3.5A |
| ⚠L902 | 2229052 | LINE FILTER 3.5A |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ⚠L903 | 2274556 | FILTER COIL |
| ⚠L904 | 2229052 | LINE FILTER 3.5A |
| ⚠L905 | 2229051 | LINE FILTER 5.5A |
| L906 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L907 | 2122653 | FERRITE BEADS CORE |
| L908 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L909 | 2122653 | FERRITE BEADS CORE |
| L910 | 2122653 | FERRITE BEADS CORE |
| L911 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L915 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L916 | 2122653 | FERRITE BEADS CORE |
| L918 | 2122653 | FERRITE BEADS CORE |
| L919 | 2122653 | FERRITE BEADS CORE |
| L920 | 2121676 | FIXED COIL |
| L922 | 2161152 | FILTER COIL |
| L929 | 2121674 | LINE FILTER COIL |
| L952 | 2161152 | FILTER COIL |
| L953 | 2161152 | FILTER COIL |
| L954 | 2161152 | FILTER COIL |
| L955 | 2161152 | FILTER COIL |
| L969 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L970 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L971 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L972 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L973 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L974 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L975 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L981 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L982 | 2122956 | LA AXIAL COIL 100 MICRO H +-10% |
| L983 | 2123469M | FERRITE BEADS CORE READ 2.3 |
| L984 | 2161152 | FILTER COIL |
| | | **SWITCHES** |
| S1401 | 2631863 | PUSH SWITCH |
| S1402 | 2983114 | 3P PIN JACK WITH S TERMINAL |
| S2001 | 2621031 | SLIDE SWITCH |
| S301 | 2621051 | SLIDE SWITCH |
| | | **MISCELLANEOUS** |
| 1 | 3209672 | CONTROL PANEL ASS'Y |
| | 3785043 | PUSH LOCK A |
| | 3811195 | POWER KNOB |
| | 3332453 | SPRING FOR KNOB |
| 2 | 3821102 | DOOR ASS'Y |
| 3 | 3462207 | BACK COVER (HHEA MD) |
| ⚠ 4 | 4304553 | CRT UNIT BRACKET |
| 5 | 3700971 | LEAD CLAMP |
| 6 | 3811971 | BACK COVER DOOR |
| 7 | 4305083 | LENS-CRT UNIT METAL SUPPORT |
| 8 | 4305082 | LENS-CRT UNIT METAL SUPPORT R |
| 9 | 4524911 | HEXAGON FLANGEHEAD 4X12 |
| 10 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| 11 | 8781440 | 3X10 TAPPING SCREW |
| 12 | 4518772 | 3X12 TNE |
| 13 | 3716742 | PLASTIC HOLDER |
| 14 | 3746482 | WIRE CLAMP |
| 15 | 4520771 | 4X18 TAPPING SCREW WITH WASHER |
| 16 | 4520883 | M3X12 SCREW WITH WASHER |
| 17 | 4482582 | BACK COVER SUPPORT METAL |
| 18 | 3209492 | TERMINAL BOARD ASS'Y |
| 19 | 3853201 | SUPPORT METAL COVER |
| 20 | 4137975 | 4X16 ZA R SCREW |
| 21 | 3122981 | CABINET ASS'Y B (HHEA MD) |
| | 3122982 | CABINET ASS'Y K (HHEA MD) |
| | 3742021 | LEAD HOLDER(CABINET) |
| | 4526351 | SPACER |
| 22 | 4329271 | WASHER (F) |
| 23 | 3191461 | 50 FRONT SURF MIRROR |
| 24 | 4522901 | NUT |
| 25 | 3794331 | PRESET DRIVER |
| 26 | 4321071 | SPEAKER COVER |
| 27 | 4519503 | 3X12 TAPPING SCREW |
| 28 | 4520232 | 4X16 DT SCREW |
| 29 | 4618172 | RUBBER SPACER |
| 30 | 4524912 | HEXAGON FLANGEHEAD 4X16 |
| 31 | 3447251 | UNIT METAL COVER (A) |
| 32 | 3447252 | UNIT METAL COVER (B) |
| 33 | 4519512 | TAPPING SCREW 4X16 MM |
| 34 | 3169601 | REAR BOARD (HHEA MD) |
| 35 | 4304282 | COVER NET |
| 36 | 4517997 | 4X12 SELF TAPPING SCREW |
| 37 | 3727972 | HOLDER-AC LINE CORD |
| 38 | 3850471 | SCREEN FRAME (H) |
| 39 | 3850472 | SCREEN FRAME (V) |
| 40 | 3189413 | SCREEN ASS'Y (HHEA MD) |
| ⚠ 41 | 48663831 | LENS CRT B ASS'Y B (HHEA MD) |
| ⚠ 42 | 4866382 | LENS CRT B ASS'Y G (HHEA MD) |
| ⚠ 43 | 4866381 | LENS CRT B ASS'Y R (HHEA MD) |
| 44 | 4530841 | HEXAGON BOLT&W ASS 4 x 16 |
| DL3001 | 2165801 | DELAY LNE SDL4242 |
| E | 2771894 | FERRITE BEADS CORE 006 |
| ⚠EANT | 2427365 | ANTENNA SWITCH ASS'Y ASB-311E- |
| EB | 2771892 | FERRITE BEADS CORE 004 |
| EC | 2771893 | FERRITE BEADS CORE |
| ECB | 2661753 | PIN PLUG WITH BASE |
| ECD | 2902263 | 4P SUB MINI PLUG PIN |
| ECG | 2661753 | PIN PLUG WITH BASE |
| ECR | 2661753 | PIN PLUG WITH BASE |
| ED | 2661753 | PIN PLUG WITH BASE |
| ED | 2771893 | FERRITE BEADS CORE |
| EDA | 2661751 | PLUG PIN WITH BASE |
| EFO | 2661753 | PIN PLUG WITH BASE |
| EIE | 2663821 | 2P PLUG PIN |
| EJ1G | 2663821 | 2P PLUG PIN |
| EMB | 2665272 | 4P PLUG PIN WITH BASE |
| EMG | 2665272 | 4P PLUG PIN WITH BASE |
| EMR | 2665272 | 4P PLUG PIN WITH BASE |
| ESL | 2661944 | CONNECTOR |

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| SYSMBOL NO. | PART NO. | DESCRIPTION |
|---|---|---|
| ETS | 2663821 | 2P PLUG PIN |
| E1 | 2983082 | OP PINJACK WITH S TERMINAL |
| ⚠E101 | 2443107 | DEFLECTION YOKE V8-6.7ST |
| ⚠E101G | 2443108 | DEFLECTION YOKE V8-6.7ST ASS'Y |
| E103G | 3810831 | MAGNET SPACER |
| E104 | 2774965 | BEAM ALINEMENT MAGNET (HHEA MD) |
| E104G | 2774962 | BEAM ALINEMENT MAGNET |
| ⚠E105G | 2774976 | FOCUS MAGNET (HHEA MD) |
| E2 | 2983388 | 9P PINJACK WITH SWITCH |
| E202 | 2982471 | 300-75 VHF ADAPTER |
| E3 | 2983082 | OP PINJACK WITH S TERMINAL |
| E301 | 2573414 | REMOTE CONTROL TRANSMITTER CLU-950GR (HHEA MD) |
| E302 | 2573621 | REMOTE CONTROL TRANSMITTER CLU-609 (HHEA MD) |
| E4 | 2983387 | 5P PIN JACK |
| E4801 | 2983011 | 4P PUSH TERMINAL |
| ⚠E801B | 2698361 | CPT SOCKET |
| ⚠E801G | 2698361 | CPT SOCKET |
| ⚠E801R | 2698361 | CPT SOCKET |
| E802 | 2661756 | 1P PLUG PIN WITH BASE |
| ⚠E9001 | 2742559 | AC POWER CORD |
| ⚠E9002 | 3772201 | AC CORD HOLDER |
| ⚠E9003 | 3739671 | CORD HOLDER |
| ⚠FE0001 | 2429341 | FRONTEND V8-A58FT |
| N | 2720221 | FUSE HOLDER |
| NC732 | 3763752 | SK BINDER |
| ND901A | 4520883 | M3X12 SCREW WITH WASHER |
| ND910N | 4520883 | M3X12 SCREW WITH WASHER |
| NF901 | 2720221 | FUSE HOLDER |
| NIC909 | 4520883 | M3X12 SCREW WITH WASHER |
| NIC910 | 4520883 | M3X12 SCREW WITH WASHER |
| NIC911 | 4520883 | M3X12 SCREW WITH WASHER |
| NI121B | 4520885 | M3X16 SCREW |
| NI121D | 4518772 | 3X12 TNE |
| NI131B | 4520885 | M3X16 SCREW |
| NI131C | 4518772 | 3X12 TNE |
| NI601B | 4520881 | M3X8 SCREW WITH WASHER |
| ⚠NP901 | 2784342 | CONDENSER COVER |
| NQ710B | 4520881 | M3X8 SCREW WITH WASHER |
| NQ777B | 4520883 | M3X12 SCREW WITH WASHER |
| NQ777D | 4518772 | 3X12 TNE |
| NQ780B | 4520881 | M3X8 SCREW WITH WASHER |
| NQ902M | 4520883 | M3X12 SCREW WITH WASHER |
| NQ902N | 4520883 | M3X12 SCREW WITH WASHER |
| NQ902O | 4770601 | 3 FLANGE NUT |
| N002 | 3731081 | PURSE LOCK 10 |
| N006 | 3737101 | PURSE LOCK 15 |
| N1 | 4520883 | M3X12 SCREW WITH WASHER |
| N101 | 2940781 | FERRITE CLAMP |
| N1030 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N1033 | 4518772 | 3X12 TNE |
| N1055 | 4159425 | 3X16 TAPPING SCREW |
| N1060 | 3746482 | WIRE CLAMP |
| N1073 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N151B | 4526322 | M8X10 SCREW |
| N151G | 4526322 | M8X10 SCREW |
| N151R | 4526322 | M8X10 SCREW |
| N155 | 4524911 | HEXAGON FLANGEHEAD 4X12 |
| N157B | 4524913 | HEXAGON FLANGEHEAD 4X12 R |
| N157G | 4524913 | HEXAGON FLANGEHEAD 4X12 R |
| N157R | 4524913 | HEXAGON FLANGEHEAD 4X12 R |
| N2 | 4520881 | M3X8 SCREW WITH WASHER |
| ⚠N200B | 3708416 | LENS SASS SP B |
| ⚠N200G | 3708415 | LENS SASS SP RG2 |
| ⚠N200R | 3708415 | LENS SASS SP RG2 |
| N270 | 4526102 | 4X18 SCREW |
| N285 | 4526101 | 4X12 SCREW |
| N290 | 4518253 | 3X10 TAPPING SCREW FOR PLASTIC |
| N408B | 3332021 | EARTH SPRING |
| N408G | 3332021 | EARTH SPRING |
| N408R | 3332021 | EARTH SPRING |
| N409B | 4159411 | 3X8 KNURL TAPPING SCREW |
| N409G | 4159411 | 3X8 KNURL TAPPING SCREW |
| N409R | 4159411 | 3X8 KNURL TAPPING SCREW |
| N505 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N508 | 4518772 | 3X12 TNE |
| N509 | 8815124 | WASHER,LOCK 3MM |
| N605 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N608 | 4518772 | 3X12 TNE |
| N609 | 8815124 | WASHER,LOCK 3MM |
| N703 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N801 | 3763751 | SK BINDER |
| N803 | 4520881 | M3X8 SCREW WITH WASHER |
| N805 | 4159427 | 3X10 TAPPING SCREW WITH WASHER |
| N806 | 8815124 | WASHER,LOCK 3MM |
| N911 | 8821114 | NUT 3 |
| PDA | 2661941 | L TYPE PLUG WITH BASE2P |
| PPD | 2663134 | PLUG PIN WITH BASE (5P) |
| PP31 | 2661751 | PLUG PIN WITH BASE |
| ⚠RL901 | 2640572 | POWER RELAY |
| SG801B | 2340039 | SPARK GAP |
| SG801G | 2340039 | SPARK GAP |
| SG801R | 2340039 | SPARK GAP |
| SG802B | 2340039 | SPARK GAP |
| SG802G | 2340039 | SPARK GAP |
| SG802R | 2340039 | SPARK GAP |
| ⚠SP401 | 2412921 | SPEAKER 160MM |
| ⚠SP402 | 2412921 | SPEAKER 160MM |
| ⚠SP403 | 2410954 | SPEAKER 50DGB (HHEA MD) |
| ⚠SP404 | 2410954 | SPEAKER 50DGB (HHEA MD) |
| TH2101 | 2340552 | THERMISTOR |
| W811B | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| W811G | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| W811R | 2692461 | FOCUS LEAD WIRE (HHEA MD) |
| X501 | 2791501 | CRYSTAL HC-49/U |